# shen, Tamira

From: Michael Cook [maushaus@bealenet.com]

Sent: Tuesday, February 03, 2009 11:10 AM

To: Cohen, Tamira

Subject: Re: Elk Hill Farm, VPDES Permit Application, VA0062731

# Hello,

Sorry for the delay in getting back to you. They were daily MAX. The Avg summer is 26C and the avg Winter is 14C. I am waiting for the final sample result from the lab, as soon as I receive it I will submit it.

Michael

---- Original Message -----

From: Cohen, Tamira

To: maushaus@bealenet.com

Sent: Monday, February 02, 2009 2:34 PM

Subject: RE: Elk Hill Farm, VPDES Permit Application, VA0062731

Mike,

The temperatures you gave me back in December (scroll down)—are these daily max or monthly averages? Are they for 2008?

Sincerely,

Tammy

# Tamira Cohen

Environmental Engineer, Sr.
Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road

Glen Allen, VA 23060 Tel: (804) 527-5012 Fax: (804) 527-5106

From: Michael Cook [mailto:maushaus@bealenet.com]

**Sent:** Friday, December 19, 2008 11:43 AM

To: Cohen, Tamira

Subject: Re: Elk Hill Farm, VPDES Permit Application, VA0062731

Thank you. The weeks seem longer at Christmas.

From: "Cohen, Tamira"

Date: Fri, 19 Dec 2008 13:30:23 -0500

To: Michael Cook<maushaus@bealenet.com>

Subject: RE: Elk Hill Farm, VPDES Permit Application, VA0062731

Thanks.

# Tamira Cohen

Environmental Engineer, Sr.

**Department of Environmental Quality** 

**Piedmont Regional Office** 

4949-A Cox Road

Glen Allen, VA 23060

Tel: (804) 527-5012

Fax: (804) 527-5106

From: Michael Cook [mailto:maushaus@bealenet.com]

**Sent:** Friday, December 19, 2008 12:20

To: Cohen, Tamira

Subject: Re: Elk Hill Farm, VPDES Permit Application, VA0062731

---- Original Message -----From: Cohen, Tamira

To: maushaus@bealenet.com

Sent: Friday, December 12, 2008 1:40 PM

Subject: RE: Elk Hill Farm, VPDES Permit Application, VA0062731

I did find two samples for the fecal coliform test (one taken on 9/25/08 and one taken on 10/17/08) which means we are only waiting for one more to be taken on or after 1/25/09.

Just a couple more questions with respect to the application:

Form 2A, page 6, Item A.12.

- 1. The flow rate you provided in the last submittal is given as 0.12 MGD. Given the design flow is 0.0125, is this correct? The avg flow rate is .006 mgd.
- Can you provide temperatures using a minimum of 3 samples—right now only 1 sample is indicated. Jan 11 C
   Mar 18C Aug 28C Oct 18C
- 3. Can you provide the lab reports for the BOD and TSS or at least provide the type of samples that were taken (i.e. grab or 24-hour composite)? The samples were grab samples.

4.

- Michael Cook
- TetraOps
- 7. 804-387-6362

8.

Sincerely,

# Tamira Cohen

Environmental Engineer, Sr.
Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

Tel: (804) 527-5012 Fax: (804) 527-5106

From: Michael Cook [mailto:maushaus@bealenet.com]

Sent: Thursday, December 11, 2008 3:22 PM

To: Cohen, Tamira

Subject: Re: Elk Hill Farm, VPDES Permit Application, VA0062731

Thank you. I am in the field currently. I will look through my files and get back with you soon. It is really raining! Mike

From: "Cohen, Tamira"

**Date**: Thu, 11 Dec 2008 15:07:32 -0500 **To**: Michael Cook<maushaus@bealenet.com>

Subject: RE: Elk Hill Farm, VPDES Permit Application, VA0062731

October 17th is what I have.

# Tamira Cohen

Environmental Engineer, Sr.

Department of Environmental Quality

Piedmont Regional Office 4949-A Cox Road Glen Allen, VA 23060

Tel: (804) 527-5012 Fax: (804) 527-5106

From: Michael Cook [mailto:maushaus@bealenet.com]

Sent: Thursday, December 11, 2008 1:50 PM

To: Cohen, Tamira

Subject: Re: Elk Hill Farm, VPDES Permit Application, VA0062731

Thank you.

What is the date on the sample result you have? I am running down the second sample, which I have collected. I was waiting for the time requirement for the third sample.

# Mike

---- Original Message ----From: Cohen,Tamira To: Michael Cook

Sent: Thursday, December 11, 2008 2:42 PM

Subject: Elk Hill Farm, VPDES Permit Application, VA0062731

I just wanted to remind you that we are still waiting on two of the three required fecal coliform results. I received one test result October 23, 2008. How is this coming along?

Sincerely,

#### Tamira Cohen

Environmental Engineer, Sr.

Department of Environmental Quality

Piedmont Regional Office

4949-A Cox Road

Glen Allen, VA 23060

Tel: (804) 527-5012

Fax: (804) 527-5106

# More info:

---- Original Message ----From: Cohen Tamira To: Michael Cook

Sent: Friday, September 19, 2008 4:05 PM

Subject: RE: Elk Hill Farm VPDES Permit Application, VA0062731

Just a few more items to complete the application:

# Permit Application Addendum

Item 6. Please provide a description of the nature of operations generating wastewater.

The facilty served is an educational residential educational facility with a 50 students and 20 staff members.

Item 9. Please provide the approval dates for the Operations and Maintenance Manual and for the Sludge/Solids Management Plan.

The original O & M manual was approved May 10th, 1973.

Please answer the final question on this sheet: Have there been any changes in operations or procedures since the above approval dates? Y or N

A addition was made to include treatment to obtain permited nitrogen levels and approved by Reed barrows.

Sewage Sludge Application

Item A.1.d. Should the facility location here be the same as in the corrected EPA 2A form (i.e. 1975 Elk Hill Road, Goochland)? Yes, the facility is located on campus.

tem A.7. Can you provide the permit number for Dillon's Septic Tank Service. I have a call into them.

Item B.6. You have now indicated the receiving facility as Hanover County DPU but have given the permit number for Henrico County WWTP. Please reconcile.

The septic recieving station in on Richfood Rd. operated by Hanover County Department of Public Utilities. It is a pump station which feeds to the Henrico County Regional Plant.

Sincerely.

#### Tamira Cohen

Environmental Engineer, Sr.
Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060
Tel: (804) 527-5012

From: Michael Cook [mailto:maushaus@bealenet.com]

Sent: Thursday, August 21, 2008 2:13 PM

**To:** Cohen, Tamira

Fax: (804) 527-5106

Subject: Re: Elk Hill Farm VPDES Permit Application, VA0062731

I just need to get signatures and I will hand deliver the application to your office. Mr Farley is out until the first week in September. I have left a message for Mr. Spears and will have him sign if possible.

# Mike

---- Original Message -----

From: Cohen, Tamira
To: Michael Cook

Sent: Wednesday, August 20, 2008 1:45 PM

Subject: RE: Elk Hill Farm VPDES Permit Application, VA0062731

Mike.

Have you submitted the revised application yet? I didn't see it in my mailbox.

Tammy

# Tamira Cohen

Environmental Engineer, Sr. Department of Environmental Quality Piedmont Regional Office 4949-A Cox Road Glen Allen, VA 23060

Tel: (804) 527-5012 Fax: (804) 527-5106

From: Michael Cook [mailto:maushaus@bealenet.com]

Sent: Thursday, August 07, 2008 8:21 PM

**Fo:** Cohen, Tamira

**Subject:** Re: Elk Hill Farm VPDES Permit Application, VA0062731

Thank you,

Mike

---- Original Message ----From: Cohen,Tamira Fo: Michael Cook

Sent: Thursday, August 07, 2008 4:04 PM

**Subject:** RE: Elk Hill Farm VPDES Permit Application, VA0062731

will try to get back you tomorrow on this.

#### Tamira Cohen

Environmental Engineer, Sr. Department of Environmental Quality Piedmont Regional Office 4949-A Cox Road Glen Allen, VA 23060

Tel: (804) 527-5012 Fax: (804) 527-5106

From: Michael Cook [mailto:maushaus@bealenet.com]

**Sent:** Thursday, August 07, 2008 3:22 PM

To: Cohen, Tamira

**Subject:** Fw: Elk Hill Farm VPDES Permit Application, VA0062731

am finishing up. I still may need clarification on some items:

---- Original Message -----From: Cohen,Tamira

To: maushaus@bealenet.com

Sent: Tuesday, June 24, 2008 11:51 AM

Subject: Elk Hill Farm VPDES Permit Application, VA0062731

Dear Mr. Cook,

The permit application submitted May 28, 2008 is considered incomplete. Please revise as indicated below and resubmit the applicable sections by July 8, 2008.

#### EPA Form 2A:

1. Item A.1. Facility address in application (1975 Elk Hill Rd.) is not the same as in permit (1903 Elk Hill Farm Rd.). Please reconcile.

1975 is the correct address

. Item A.2. Does the title for Michael Cook read "Operator"? Yes Operations consultant

- 3. Item A.11. Please complete subsections b. to d. I must make one more trip to the facility.
- 4. Item A.12. Please provide winter and summer temperatures, BOD5, fecal coliform, and TSS data. Please note that a minimum of 3 data values per parameter are required. Almost Complete
- 5. Part C. Is the signatory (Michael L. Cook) authorized to sign for the corporation Elk Hill Farm, Inc.? If yes, we will need a copy of the letter from an authorized signatory of Elk Hill Farm delegating authority. No, I will have Mr. Farley sign the permit

# II. Sewage Sludge Application:

1. Item A.1.b. and c. The facility contact person and mailing address are different than those provided in EPA form 2A Item A.1. Please reconcile.

Corrected

- 2. Item A.1.d. Facility address not the same as in permit. See comment above (Item A.1. EPA form 2A) Corrected
- 3. Item A.7. Can you resubmit the name for the second contractor listed alongside Dillon's Septic Hauling. Additionally, you have listed one permit number for contractor. Which contractor's permit number is 2667? Please provide the permit number for the second contractor as well.

The number submitted was for the City of Richmond's Wastewater receiving facility, MoJohns hauls to Richmond City, Dillon's hauls to a receiving station on Richfood Rd. operated by Hanover County Utilities Dept. and is then pumped to the Henrico County Regional WWTP.

4. Item A.9. Only Sections A and B need to be marked. Additionally, see above comment (Part C, EPA Form 2A) regarding signatory authority.

Corrected

- 5. Additionally, please complete this item by providing a description of the services(s) provided by the contractor(s) to the applicant/facility and the respective obligations of the applicant/facility and the contractor (s). The contractor pumps the contents of the digester and hauls it to a receiving station of their choice.
- 6. Item B.1. Can you provide an estimate of the dry metric tons of sludge generated by the facility per 365-day period? No dry solids are produced at the facility. All solids are pumped and hauled by septic trucks.
- 7. Item B.3.b. Please complete this item or indicate N/A if not applicable.

Corrected

8. Item B.5.b. Indicate N/A

Corrected

- 9. Item B.6. The permit fact sheet indicates sludge is pumped and hauled to the Henrico County collection system at the Richfood Road Station for treatment and disposal at the Henrico County WWTP. If this is no longer correct, please provide more details in subsections a. to c. as required. If this is still the procedure, then revise the above noted subsections accordingly. Corrected. As stated above.
- 10. Item B.6.d. Please provide an estimate of the dry metric tons per 365-day period of sewage sludge provided to the receiving facility.

No dry solids are produced at the facility. All solids are pumped and hauled by septic trucks.

- 11. Item B.6.e. Please provide the receiving facility's VPDES and/or other permit numbers as indicated. Henrico & City of Richmond WWTP VPDES?
- 12. Item B.6.g. and h. Since "yes" is indicated, please provide the details as required and/or the permit number.

Corrected

- 13. Item B.k. Please complete this item with the detailed information requested. You must indicate haul routes (map or description) and indicate days of the week and times of the day sewage sludge will be transported. The routes differ by hauler & their schedules. The solids are digesters are pumped as needed with no set schedule.
- **III. VPDES Permit Application Addendum**—This was not provided with the application. I have attached an electronic copy. Please complete and return to my attention. Corrected

Thank you for you patience and help. Would you like me to sent in the corrected pages, retrieve the existing

application and correct it, or complete a new forms?

Michael Cook 804-994-2088 804-387-6362\* cell

Please contact me if you need any further assistance.

Sincerely,

# Tamira Cohen

Environmental Engineer, Sr.
Department of Environmental Quality
Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

Tel: (804) 527-5012 Fax: (804) 527-5106

# LABORATORIES, INC.

# Analytical Summary

10357 Old Keeton Rood Ashland, Virginia 23005 Phone 804 550 3971 Fax 804 550 3826

TetraOps

Attn: Michael L. Cook P.O. Box 13 Doswell, VA 23047

Project Name : Elk Hill

Date Received: January 27, 2009 Date Sampled: January 27, 2009 Time Sampled: 09:40

Date Issued : February 05, 2009

Lab # 1(A-D)/Sample ID	: Final	Effluent		
2(11 271 0011) = -1			Date/Time	Date/Time
Parameter	Result	Units DL	Prepared	Analyzed Method Analyst
TSS	4.9	mg/1 1.0	01-30/1430	02-02/0900 2540 D ISW
BOD	15	mg/1 2	01-28/1400	02-02/1100 5210 B SDC
Ammonia (as N)	0.7	mg/l .1	01-29/0930	01-29/0945 4500-NH3F MRG
Fecal Coliform	< 1	CFU/100ml 2	01-27/1600	01-28/1410 p.124 RAY

BDL = Below Detection Limit

All methods are 40 CFR 136 March 12, 2007, Table IB approved. Reference to Standard Methods is 18th ed.

Stephanie B. Quick Director of Operations

R9181999-1

TetraOps Box 13 Doswell,VA 23047

804-994-2088 Phone 804-994-2324 Fax

Email: maushaus@bealenet.com

DATE: October 23, 2008

TO: DEQ Tamira Cohen
Environmental Engineer, Sr.
Department of Environmental Quality
Pledmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060
Tel: (804) 527-5012
Fax: (804) 527-5106

RE: Elk Hill Farm

Pages W/ Cover: 3

EMERGRATURES, NC.

Analytical Summary

163867 Clief Human Rosed Jupoleol, Verginis 23006 Prame 1804 SAKS 38KFT Spir. 1804 SAKS 38KFR

Labokerokes. NC TetraOps Attk Michael I Cook P 0. Box 13 Doswell. VA 2384/ Project Name : Elk Hill Date Received: September 25, 200

Lab # 1(A-B)/Sample tD : Final Effluent.

Bate/Time Bate/Time

Parameter Hesult Haffs Permitted Analysted Method Analyst Feed Colliform 2 (9-75/1650 09-76/1945 92211 East

60% — Below Detection tim11 All methods are 40 CFR 136 March 17, 2007, Table 18 approved. Reference to Standard Methods is 18th ed

Carrie I. Sisk appratory Manager

88980616-l

1



TetraOps Attn: Michael L. Cook P.O. Box 13 Doswell, VA 23047

# Analytical Summary

18357 Old Kawton Road Ashland, Virginia 23005 Phone 804 550 3971 Fax 804 550 3826

Project Name : Elk Hill

Date Received: October 17, 2008 Date Sampled: October 17, 2008 Date Sampled : Time Sampled :

11:25

Date Issued : October 21, 2008

Lab # 1(A-B)/Sample ID : Final Effluent

Date/Time Date/Time

Analyzed Method Analyst 10-19/1150 9221E KBT Prepared 10-17/1430 Résult <u>Parameter</u> Fecal Coliform

BDL - Below Detection Limit All methods are 40 CFR 136 March 12, 2007, Table IB approved. Reference to Standard Methods is 18th ed.

boratory Director

R8A80886-1

L. Hudson

FORM

2A NPDES

# NPDES FORM 2A APPLICATION OVERVIEW

#### APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

#### BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

#### SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
  - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
  - 2. Any other industrial user that:
    - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
    - Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
    - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

# ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)



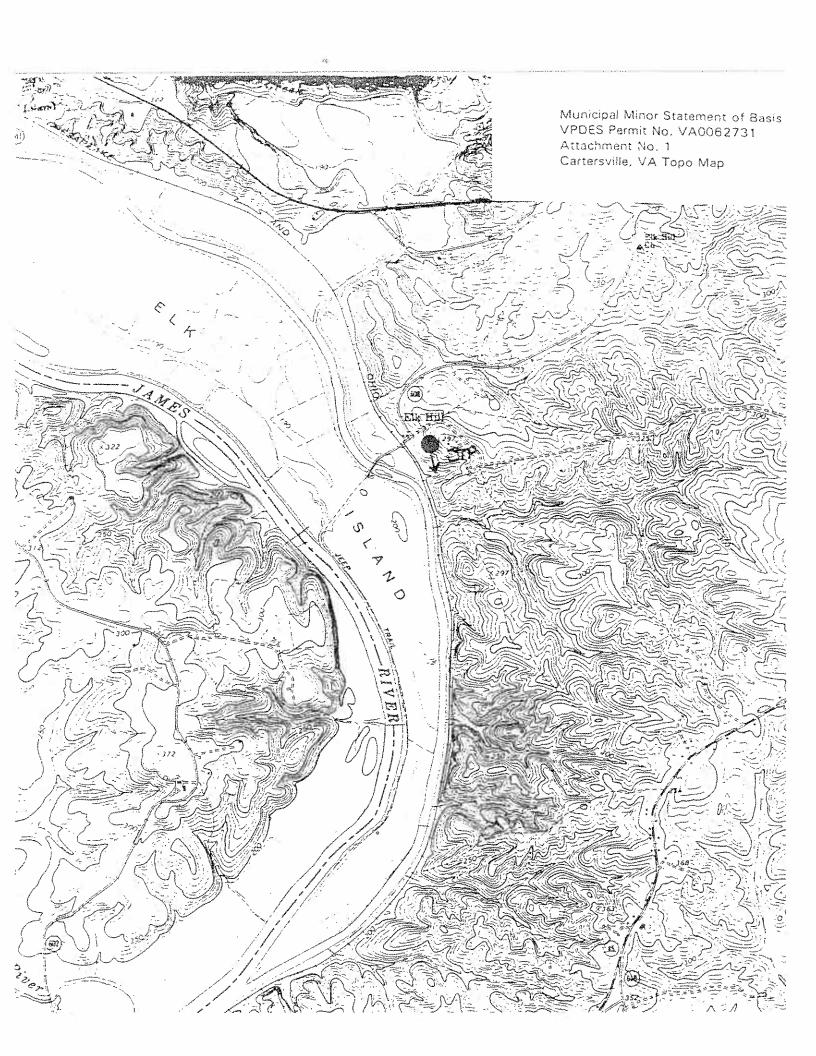
ELK HILL FARM V	VA 0062731
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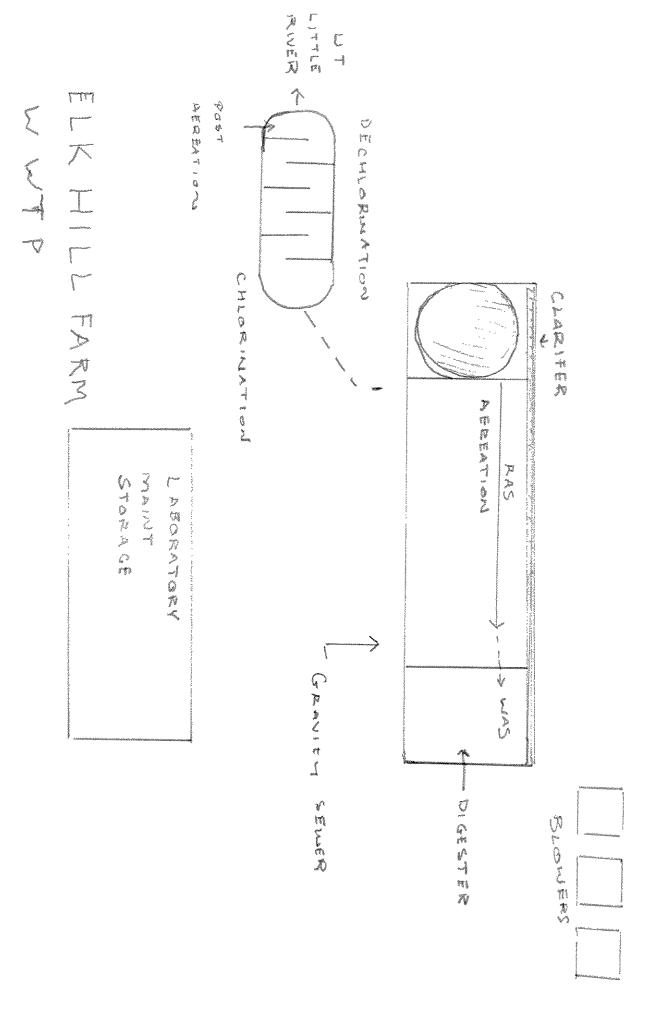
BA	SIC APPLICA	TION INFORMATION
PAR	T A. BASIC APPLI	CATION INFORMATION FOR ALL APPLICANTS:
All tr	eatment works must	complete questions A.1 through A.8 of this Basic Application Information packet.
A.1.	Facility Information.	
	Facility name	ELL HIII FACO
	Mailing Address	P.O. BOX 99
		GOOCHIA-01 VA 23063
	Contact person	Mr. Robert Browning
	Title	MAINT SURVINOR
	Telephone number	804-457-4866
	Facility Address	1975 ELK HILL Rd
	(not P.O. Box)	Goochiand VA 23063
A.2.	Applicant Informatio	n. If the applicant is different from the above, provide the following:
	Applicant name	Michael L. Cost
	Mailing Address	P.O. Bax 13
	-	DOS WELL VA
	Contact person	Michael L. Cook 23073
	Title	Openations Consultant.
	Telephone number	804 994 2088
	Is the applicant the c	owner or operator (or both) of the treatment works?
	owner	operator
	Indicate whether corre	spondence regarding this permit should be directed to the facility or the applicant.
	facility	applicant
A.3.	Existing Environmen works (include state-is	ntal Permits. Provide the permit number of any existing environmental permits that have been issued to the treatment issued permits).
	NPDES	PSD
	IIIC	Other
	RCRA	Other
A.4.		formation. Provide information on municipalities and areas served by the facility. Provide the name and population of wn, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private,
	Name	Population Served Type of Collection System Ownership
	Total popu	ulation served

FACILITY NAME AND I	PERMIT NU	MBER:									hpproved 1/14/99 lumber 2040-0086	
A.11. Description of Tr	eatment.			<del></del>	irrahmainraaanam.					***************************************	artistiska kontrollister et till til storik allemanda maga annan aga an stangsja gregorija gje	
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Ċ.	hiorin	0114	~>									
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FACILITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99 OMB Number 2040-0086
BASIC APPLICATION INFORMATION	
PART C. CERTIFICATION	
All applicants must complete the Certification Section. Refer to instructions to dete applicants must complete all applicable sections of Form 2A, as explained in the A have completed and are submitting. By signing this certification statement, applications that apply to the facility for which this application is submitted.	pplication Overview. Indicate below which parts of Form 2A you
Indicate which parts of Form 2A you have completed and are submitting:	
Basic Application Information packet Supplemental Application	Information packet:
Part D (Expanded	f Effluent Testing Data)
Part E (Toxicity T	esting: Biomonitoring Data)
Part F (Industrial	User Discharges and RCRA/CERCLA Wastes)
Part G (Combined	I Sewer Systems)
ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.	
I certify under penalty of law that this document and all attachments were prepared designed to assure that qualified personnel properly gather and evaluate the inform who manage the system or those persons directly responsible for gathering the infibelief, true, accurate, and complete. I am aware that there are significant penalties and imprisonment for knowing violations.	nation submitted. Based on my inquiry of the person or persons ormation, the information is, to the best of my knowledge and
Name and official title MICHARI FARE	Administration
Signature Www.C.+au	
Telephone number	
Date signed 2 Sept. 2008	
Upon request of the permitting authority, you must submit any other information ne works or identify appropriate permitting requirements.	cessary to assess wastewater treatment practices at the treatment

SEND COMPLETED FORMS TO:





ROUGH LINE DEFEIRS.

# **VPDES Permit Application Addendum**

WI	Entity to whom the permit is to be issued: ELL Hill Farm Inc.  no will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the sility or property owner.
2.	Is this facility located within city or town boundaries? Y
3.	What is the tax map parcel number for the land where this facility is located? 2 4 1 2 8 A
4.	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities?
5.	ALL FACILITIES: What is the design average flow of this facility?, ©125MGD Industrial facilities: What is the max. 30-day avg. production level (include units)?
	In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Y $(N)$
	If AYes≅, please specify the other flow tiers (in MGD) or production levels:
du	Pase consider: Is your facility=s design flow considerably greater than your current flow? Do you plan to expand operations ring the next five years?  Nature of operations generating wastewater:
	Number of private residences to be served by the wastewater treatment facilities:
7.	Mode of discharge:ContinuousIntermittentSeasonal Describe frequency and duration of intermittent or seasonal discharges:
8.	Identify the characteristics of the receiving stream at the point just above the facility=s discharge point:  Permanent stream, never dry Intermittent stream, usually flowing, sometimes dry Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry Lake or pond at or below the discharge point Other:
9.	Approval Date(s):  O & M Manual Sludge/Solids Management Plan

Have there been any changes in your operations or procedures since the above approval dates?  $\ \ Y\ /\ N$ 

# SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1.	All app	licants must complete Section A (General Information).
2.	Will thi	is facility generate sewage sludge?YesNo
	Will thi	is facility derive a material from sewage sludge?YesNo
		nswered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material From Sewage Sludge).
3.	Will thi	is facility apply sewage sludge to the land?YesNo
	Will ser	wage sludge from this facility be applied to the land? YesNo
	If you a	nswered No to both questions above, skip Section C.
	If you a	nswered Yes to either, answer the following three questions:
	注.	Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? YesNo
	b.	Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land?YesNo
	c.	Will sewage sludge from this facility be sent to another facility for treatment or blending?YesNo
	If you a	nswered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you a	inswered Yes to a, b or c, skip Section C.
4.	Do you	own or operate a surface disposal site?YesNo
	If Yes.	complete Section D (Surface Disposal).

FACILITY NAME: ELW H.(1) FARM VPDES PERMIT NUMBER: JACOC 375/ SECTION A. GENERAL INFORMATION

# All applicants must complete this section.

1.	Facilit	y Information.
	a.	Facility name: ELEHIU FARA WWTP
	b.	Contact person: Sab Branch
		Title: wardt. S.
		Phone: ( 40) 4 4464 1457 4846
	C.	Mailing address:
		Street or P.O. Box: P.a. Bax 99
		City or Town: Gooch 1 And State: JA Zip: 23063
	d.	Facility location:
		Street or Route #: ELK HILL Rd /608
		County: Geochland
		City or Town: State: VA Zip: 23063
	e.	Is this facility a Class I sludge management facility?YesNo
	£.	Facility design flow rate:mgd
	g.	Total population served:
	h.	Indicate the type of facility:
		Publicly owned treatment works (POTW)
		Privately owned treatment works
		Federally owned treatment works
		Blending or treatment operation
		Surface disposal site
		()ther (describe):
2.	a. b.	Applicant name:  Mailing address:  Street or P.O. Box:  City or Town:  Contact person:  Title:  Phone:
	d.	Is the applicant the owner or operator (or both) of this facility?
	u.	owneroperator
	E.	Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)  facility  applicant
3.	Permi	it Information.
-7 -	a.	Facility's VPDES permit number (if applicable):
	b.	List on this form or an attachment, all other federal, state or local permits or construction approvals
	ν,.	received or applied for that regulate this facility's sewage sludge management practices:  Permit Number: Type of Permit:
4.		a Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this
	facilit	y occur in Indian Country?YesNo If yes, describe:

Topographic N	ELV HILL FA	nap or maps (or	other appropriate maps	PERMIT NUMBER: VA 04.						
unavailable) th	shows the following information. Maps should include the area one mile beyond all property									
boundaries of t	oundaries of the facility: Location of all sewage sludge management facilities, including locations where sewage sludge is generated,									
	on or an sewage sludge mans, treated, or disposed.	agement racmus	rs, including recours v	mere sewage sudge is generated,						
b. Locati	ion of all wells, springs, and o			ic records or otherwise known to						
the ap	plicant within 1/4 mile of the	e property bound	laries.							
will be employ treating sewage	Provide a line drawing and/ed during the term of the peners sludge, the destination(s) of ction and vector attraction rec	mit including al fall liquids and	l processes used for coll solids leaving each unit							
Contractor Infe	ormation. Are any operationa	al or maintenan	e aspects of this facility	related to sewage sludge						
generation, tre	atment, use or disposal the re	esponsibility of a	contractor? _Xes	_No						
If yes, provide	the following for each contra	ctor (attach add	itional pages if necessar	y).						
Mailing addres		<u> Y V V V V V V V V V V V V V V V V V V </u>								
Street or P.O.	Box: 3055 W	JAMERAL	tay May	Careacsul						
			e: <u>/A /ip: 2.3</u>		% % G					
Phone: (9ca)	<u> </u>	<u> </u>			~ 647					
Conductor's Pt	ederal, State of Local Fernin	Number(s) appi	icable to this facility's se	wage sludge:	dan was s					
					dan was a					
If the contractor to be provided	or is responsible for the use ar to the applicant and the respo	nd/or disposal or ective obligation	f the sewage sludge, pro as of the applicant and the	vide a description of the service ne contractor(s).	diam. Was taken a					
If the contractor to be provided  Pollutant Conceptor the pollutant expected use of	or is responsible for the use are to the applicant and the responsible for the use are to the applicant and the responsible for the applicant and the responsible for the use are the use	nd/or disposal of ective obligation below or a separa udge have been of must be based of	f the sewage sludge, prous of the applicant and that attachment, provide sestablished in 9 VAC 25	vide a description of the service						
If the contractor to be provided  Pollutant Conceptor the pollutant expected use or and must be no	or is responsible for the use and to the applicant and the responsible for the use and the responsible for the applicant and the responsible for the applicant and the responsible for the applicant formula for the applicant for the use and the applicant for the use and the applicant for the use and the responsible for the applicant for the app	nd/or disposal or ective obligation below or a separa udge have been of must be based of f years old.	f the sewage sludge, pro- is of the applicant and that ate attachment, provide sestablished in 9 VAC 25 on three or more sample	vide a description of the service ne contractor(s). sewage sludge monitoring data is-31-10 et seq. for this facility's s taken at least one month apart						
If the contractor to be provided  Pollutant Conceptor the pollutant expected use of	or is responsible for the use and to the applicant and the responsible for the use and to the applicant and the responsible for the applicant and the responsible for the applicant and the applicant for its which limits in sewage slut redisposal practices. All data	nd/or disposal of ective obligation below or a separa udge have been of must be based of	f the sewage sludge, prous of the applicant and that attachment, provide sestablished in 9 VAC 25	vide a description of the service ne contractor(s). sewage sludge monitoring data is-31-10 et seq. for this facility's						
If the contractor to be provided  Pollutant Conceptor the pollutant expected use or and must be no	or is responsible for the use at to the applicant and the responsible for the use at to the applicant and the responsible for the applicant and the responsible for the applicant and the responsible for the applicant and the applicant ap	nd/or disposal of ective obligation below or a separa udge have been of must be based of f years old.	f the sewage sludge, pross of the applicant and thate attachment, provide sestablished in 9 VAC 25 on three or more sample	vide a description of the service ne contractor(s). sewage sludge monitoring data is 31-10 et seq. for this facility's s taken at least one month apart  DETECTION LEVEL						
If the contractor to be provided  Pollutant Conceptor the pollutant expected use or and must be not pollutant.	or is responsible for the use at to the applicant and the responsible for the use at to the applicant and the responsible for the applicant and the responsible for the applicant and the responsible for the applicant and the applicant ap	nd/or disposal of ective obligation below or a separa udge have been of must be based of f years old.	f the sewage sludge, pross of the applicant and thate attachment, provide sestablished in 9 VAC 25 on three or more sample	vide a description of the service ne contractor(s). sewage sludge monitoring data is 31-10 et seq. for this facility's s taken at least one month apart  DETECTION LEVEL						
If the contractor to be provided  Pollutant Conceptor the pollutant expected use of and must be not pollutant.  POLLUTANT  Arsenic	or is responsible for the use at to the applicant and the responsible for the use at to the applicant and the responsible for the applicant and the responsible for the applicant and the responsible for the applicant and the applicant ap	nd/or disposal of ective obligation below or a separa udge have been of must be based of f years old.	f the sewage sludge, pross of the applicant and thate attachment, provide sestablished in 9 VAC 25 on three or more sample	vide a description of the service ne contractor(s). sewage sludge monitoring data is 31-10 et seq. for this facility's s taken at least one month apart  DETECTION LEVEL						
If the contractor to be provided  Pollutant Conceptor the pollutant expected use or and must be not pollutant.  Arsenic Cadmium	or is responsible for the use at to the applicant and the responsible for the use at to the applicant and the responsible for the applicant and the responsible for the applicant and the responsible for the applicant and the applicant ap	nd/or disposal of ective obligation below or a separa udge have been of must be based of f years old.	f the sewage sludge, pross of the applicant and thate attachment, provide sestablished in 9 VAC 25 on three or more sample	vide a description of the service ne contractor(s). sewage sludge monitoring data is 31-10 et seq. for this facility's s taken at least one month apart  DETECTION LEVEL						
If the contractor to be provided  Pollutant Concept for the pollutant expected use or and must be not pollutant.  Arsenic Cadmium  Chromium	or is responsible for the use at to the applicant and the responsible for the use at to the applicant and the responsible for the applicant and the responsible for the applicant and the responsible for the applicant and the applicant ap	nd/or disposal of ective obligation below or a separa udge have been of must be based of f years old.	f the sewage sludge, pross of the applicant and thate attachment, provide sestablished in 9 VAC 25 on three or more sample	vide a description of the service ne contractor(s). sewage sludge monitoring data is 31-10 et seq. for this facility's s taken at least one month apart  DETECTION LEVEL						
If the contractor to be provided  Pollutant Conceptor the pollutant expected use or and must be not pollutant.  Pollutant Conceptor the pollutant expected use or and must be not pollutant.  Arsenic Cadmium Chromium Copper	or is responsible for the use at to the applicant and the responsible for the use at to the applicant and the responsible for the applicant and the responsible for the applicant and the responsible for the applicant and the applicant ap	nd/or disposal of ective obligation below or a separa udge have been of must be based of f years old.	f the sewage sludge, pross of the applicant and thate attachment, provide sestablished in 9 VAC 25 on three or more sample	vide a description of the service ne contractor(s). sewage sludge monitoring data is 31-10 et seq. for this facility's s taken at least one month apart  DETECTION LEVEL						
If the contractor to be provided  Pollutant Concept for the pollutant expected use or and must be not pollutant.  POLLUTANT  Arsenic Cadmium Chromium Copper Lead	or is responsible for the use at to the applicant and the responsible for the use at to the applicant and the responsible for the applicant and the responsible for the applicant and the responsible for the applicant and the applicant ap	nd/or disposal of ective obligation below or a separa udge have been of must be based of f years old.	f the sewage sludge, pross of the applicant and thate attachment, provide sestablished in 9 VAC 25 on three or more sample	vide a description of the service ne contractor(s). sewage sludge monitoring data is 31-10 et seq. for this facility's s taken at least one month apart  DETECTION LEVEL						
If the contractor to be provided  Pollutant Concept for the pollutant expected use or and must be not pollutant.  Pollutant  Arsenic  Cadmium  Chromium  Copper  Lead  Mercury	or is responsible for the use at to the applicant and the responsible for the use at to the applicant and the responsible for the applicant and the responsible for the applicant and the responsible for the applicant and the applicant ap	nd/or disposal of ective obligation below or a separa udge have been of must be based of f years old.	f the sewage sludge, pross of the applicant and that attachment, provide sestablished in 9 VAC 25 on three or more sample	vide a description of the service ne contractor(s). sewage sludge monitoring data is 31-10 et seq. for this facility's s taken at least one month apart  DETECTION LEVEL						
If the contractor to be provided  Pollutant Concept for the pollutant expected use or and must be not pollutant.  POLLUTANT  Arsenic Cadmium Chromium Copper Lead Mercury Molybdenum	or is responsible for the use at to the applicant and the responsible for the use at to the applicant and the responsible for the applicant and the responsible for the applicant and the responsible for the applicant and the applicant ap	nd/or disposal of ective obligation below or a separa udge have been of must be based of f years old.	f the sewage sludge, pross of the applicant and that attachment, provide sestablished in 9 VAC 25 on three or more sample	vide a description of the service ne contractor(s). sewage sludge monitoring data is 31-10 et seq. for this facility's s taken at least one month apart  DETECTION LEVEL						
If the contractor to be provided  Pollutant Concept for the pollutant expected use or and must be not pollutant.  POLLUTANT  Arsenic Cadmium Chromium Copper Lead Mercury Molybdenum Nickel	or is responsible for the use at to the applicant and the responsible for the use at to the applicant and the responsible for the applicant and the responsible for the applicant and the responsible for the applicant and the applicant ap	nd/or disposal of ective obligation below or a separa udge have been of must be based of f years old.	f the sewage sludge, pross of the applicant and that attachment, provide sestablished in 9 VAC 25 on three or more sample	vide a description of the service ne contractor(s). sewage sludge monitoring data is 31-10 et seq. for this facility's s taken at least one month apart  DETECTION LEVEL						

✓ Section A (General Information)

Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)

\_\_\_\_Section D (Surface Disposal)

Section C (Land Application of Bulk Sewage Sludge)



Par (804) 301-2524 chail masima divalent con

Addendum:

Septic Hauling A. 5

MoJohns and Dillions' Septic services remove waste solids from the facility digester and carry them to Hanover County's Department of Public Utilities Richfood Road receiving station. A normal route map is attached. The routine hauling is performed on an as needed basis between the hours of 8:00 am and 4:30 pm Monday through Friday.

The facility's solids handling process is limited to an aerobic digester. One the digester has reached its capacity the solids are removed, in liquid from, by the above septic hauler. The location of the digester is shown on the facility line drawing.

Estimate of Dry solids produced:

Digester 10ft X 8 ft. X 8ft. = 640 cu ft. capacity.

640 cu ft. X 7.48 cu ft./ gal = 4787.2 gal

4787.2 gal = 0.004787 MG

.004787 MG X 4000 mg/l TSS X 8.34 lbs/gal = 159.69 lbs per pump out.

The system averages four pumping cycles per year.

4 events X 159.69 lbs. = 638.7 lbs

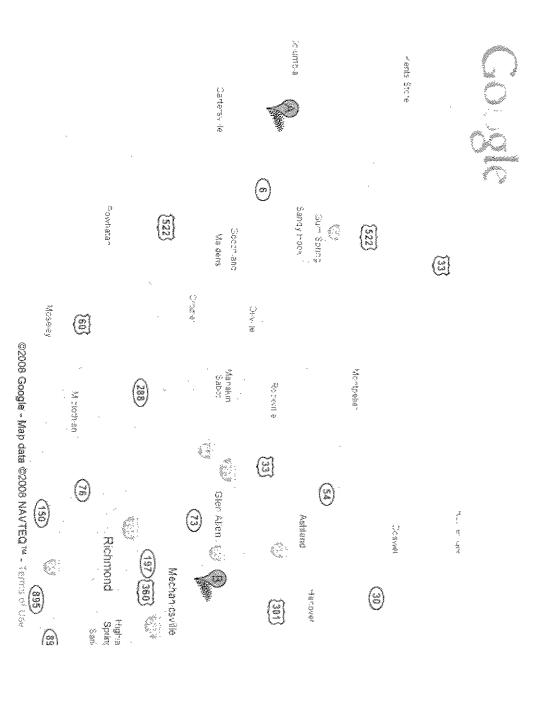
1 pound = 0.00045359237 metric tons

638.7 lbs X 0.00045359237 metric tons

.29 dry metric tons

Sincerely,

M M. L. Cook



Mechanicsville, VA 23116 Driving directions to Richfood Rd,

D 1975 TR I RO

Goochland, VA 23063

Head northeast on Elk Hill Rd

toward River Rd W/VA-6

Turn right at River Rd W/VA-6 10.7 mi

N

0	ထ	00	.\	တ	Ċ	4	ω
0. Turn left at Richfood Rd	Take exit 41B to merge onto US- © 301 S/VA-2 S toward Richmond	Take exit 177 to merge onto I-295 (a) S toward Washington/Norfolk	<ol> <li>Slight right to merge onto I-64 E toward Richmond</li> </ol>	6. Turn left at Oilville Rd	5. Turn right at Broad St Rd/US- © 250	4. Turn right at Fairground Rd	<ol> <li>Turn left at Sandy Hook Rd/US-</li> <li>522</li> </ol>
Ö	Ö	三 三 三 三	10.6 mi	O	Ó	(J)	Ö
$\bigcirc$	ග	တ	ග	2	$\infty$	L	W
0.6 mi	0.6 mi	3.	3	0.4 m	0.8 mi	5.3 E.5	0.3 3



6

These agentians are to the rung paguses only. The exp. for their coast above property the flux vootings of their expersional page so are so after the property of the property

FACILITY NA	ME: E	L14	يا إحسوّ	1000	•	FA	p <sup>ow</sup>	(New

VPDES PERMIT NUMBER: VAGG & 6273/

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title	Micha	LL NE LL	Anno	weren
Signature Whit	4 Charl	Date Sig	ned 25ep	8005.1
		5	•	_
Telephone number 🔝	४८५ ५	1574866		

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

FACILITY NAME: ELL HILL FARA

VPDES PERMIT NUMBER: マキョローをごろり

# SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

Amo	ount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use o
	osal, provide the following information for each facility from which sewage sludge is received. If you receive
	ge sludge from more than one facility, attach additional pages as necessary.
a.	Facility name:
b.	Contact Person:
v.	Title
	Title:
_	Phone ( )
C.	Mailing address:
	Street or P.O. Box:  City or Town:  State:  Zip:
	City or Town: State: //ip:
d,	racimy Address:
	(not P.O. Box)
e.	Total dry metric tons per 365-day period received from this facility: dry metric tor
1	Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-si
	facility, including blending activities and treatment to reduce pathogens or vector attraction characterist
Trea	tment Provided at Your Facility.
a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility?
	Class AClass BNeither or unknown
b.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce
	Class AClass BNeither or unknown
b.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage studge:
	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b. с.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
ъ. с.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b. с.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b. с.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b. с.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b. c. d. e.	Class AClass BNeither or unknown Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage studge:
b. c. d. e.	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b. c. d. e.	Class AClass BNeither or unknown Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage studge:
b. c. d.	Class AClass BNeither or unknown Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:
b. c. d. e. Prep One (If se	Class AClass BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:

ILIT	Y NAME:	VPDES PERMIT NUMBER:
	Y NAME:YesNo	
ζ.	lalo or Givo. Anny in a Rag or	Other Container for Application to the Land.
		ewage sludge in a bag or other container for sale or give-away prior to land application. Skip this
,	uestion if sewage sludge is covered in	
a		per 365-day period of sewage sludge placed in a bag or other container at your facility
		or application to the land: dry metric tons
ħ		cation, a copy of all labels or notices that accompany the sewage sludge being sold or
		other container for application to the land. $\bowtie A$ .
9	Shipment Off Site for Treatmen	nt or Blending.
		lge from your facility is sent to another facility that provides treatment or blending. This question does
		ly to a land application or surface disposal site. Skip this question if the sewage sludge is covered in
		dudge to more than one facility, attach additional sheets as necessary.)
a	. Receiving facility nam	c: MANGOR COUNTY DEAR of Whites
b		PAVISE VAN GELDER
		to the contract of the contrac
C	Mailing address:	ea say Lik
	City or Tours	P. G. B G Y 4 6 5  ANGULY State: VA Zip: 23069
,1	I. Total dry metric tons p	per 365-day period of sewage sludge provided to receiving facility: 29 dry
v	metric tons	of and the same of an entities is constant to a same and a same series of a same series.
е		a attachment, the receiving facility's VPDES permit number as well as the numbers of
		or local permits that regulate the receiving facility's sewage sludge use or disposal
	practices:	the services transfer the service service services and services to the services to the services that the services the services that the se
	Permit Number:	Type of Permit:
	VA 00 63 69 5	Type of Permit:
1	Does the receiving fac	ility provide additional treatment to reduce pathogens in sewage sludge from your
•	facility? Yes N	
		en reduction is achieved for the sewage sludge at the receiving facility?
	Class A	Class BNeither or unknown
	Describe, on this form	or another sheet of paper, any treatment processes used at the receiving facility to
		wage sludge:
g	g. Does the receiving fag	ility provide additional treatment to reduce vector attraction characteristics of the
	sewage sludge?/Ye	sNo
	Which vector attraction	n reduction option is met for the sewage sludge at the receiving facility?
	Option 1 (Minimu	m 38 percent reduction in volatile solids)
	Option 2 (Anaerob	nic process, with bench-scale demonstration)
	Option 3 (Aerobic	process, with bench-scale demonstration)
	Option 4 (Specific	oxygen uptake rate for aerobically digested sludge)
		processes plus raised temperature)
		I to 12 and retain at 11.5)
	Option 7 (75 perce	ent solids with no unstabilized solids)
	Option 8 (90) perce	ent solids with unstabilized solids)
	✓ None unknown	
	Describe, on this form	or another sheet of paper, any treatment processes used at the receiving facility to
	reduce vector attraction	n properties of sewage sludge: pa- bair prover E proced
phos		ility provide any additional treatment or blending not identified in f or g above?
	YesNo	- Comment of the farmer of the town town town and in the first for farmer above
	If yes, describe, on this	s form or another sheet of paper, the treatment processes not identified in f or g above:
		MIT PARTY L.
i	If you answered yes to	f., g or h above, attach a copy of any information you provide to the receiving facility
,	" The last received and last party and	the control of the second of t

FACILIT		ME:
		to comply with the motion and nocessary intermations requirement to 7 770 25-51-5500.
, seed		Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or
.,	•	give-away for application to the land?YesNo
		If yes, provide a copy of all labels or notices that accompany the product being sold or given away.
1	k.	Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally
		used for such purposes? Yes No. If no, provide description and specification on the vehicle used to
		transport the sewage sludge to the receiving facility.
		Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of
		the week and the times of the day sewage sludge will be transported.
7. I	Land A	oplication of Bulk Sewage Sludge.
(	Complet	e Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6;
		Question 7.b, c & d only if you are responsible for land application of sewage studge.)
	a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry
		metric tons
I	b.	Do you identify all land application sites in Section C of this application?YesNo
		If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in
		accordance with the instructions).
(	c.	Are any land application sites located in States other than Virginia?YesNo
		If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the
		States where the land application sites are located. Provide a copy of the notification.
(	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to
		comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H
		(Examples may be obtained in Appendix IV).
		Disposal.
(	(Complet	e Question 8 if sewage sludge from your facility is placed on a surface disposal site.)
ŧ	â.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal
		sites: dry metric tons
100	b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?
		Yes No
		If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send
		sewage sludge to more than one surface disposal site, attach additional pages as necessary.
(	c.	Site name or number:
(	d.	Contact person:
		Title:
		Phone: ( )
		Contact is:Site OwnerSite operator
	e.	Mailing address.
Ì		
		Street or P.O. Box:  City or Town:  State:  Zip:
i	í.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal
•		site: dry metric tons
,	er.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers
ŧ	g.	of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the
		surface disposal site:
		Permit Number: Type of Permit:
), ]	Incinera	

FACII	LITY N	AME: VPDES PERMIT NUMBER:
-,	a.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge
		incincrator: dry metric tons
	b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?
		YesNo
		If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send
		sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.
	C.	Incinerator name or number:
	d.	Contact person:
		Title:
		Phone: ( )
	e.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of scwage sludge from your facility fired in this sewage sludge
		incinerator: dry metric tons
	g.	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the
		firing of sewage sludge at this incinerator:
		Permit Number: Type of Permit:
10	1 Ni am a	rational Manifold Calif Whata Landfill
10.		sal in a Municipal Solid Waste Landfill. ete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information for
		ere Question to it sewage sauge from your facinty is praced on a municipal sould waste fandfull on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one
		nal solid waste landfill, attach additional pages as necessary.)
	a.	Landfill name:
	b.	Contact person:
		Title:
		Phone: ( )
		Contact is:Landfill OwnerLandfill Operator
	C.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip:
	$\mathbf{d}$ .	Landfill location.
		Street or Route #:
		County:
		City or Town: State: Zip:
	e.	Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:
		dry metric tons
	f.	List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the
		operation of this municipal solid waste landfill:
		Permit Number: Type of Permit:
		D. J. J. J. St. A. St. A. S. and J. S.
	٤.	Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9 VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?
	£.,	YesNo Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid
	h.	Waste Management Regulation, 9 VAC 20-80-10 et seq.? Yes No
	:	Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill
	1.	
		be watertight and covered? Yes No Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the
		week and time of the day sewage sludge will be transported.
		work and ante or the day service storice will be uninjerviou.

ACIL	ITY N.	AME:	VPDES PERMIT NUMBER:
		SECTION	C. LAND APPLICATION OF BULK SEWAGE SLUDGE
**	The sev the vect The sev You pro	wage sludge meets the Table 1 ceiling c tor attraction reduction options 1-8 (fil wage sludge is sold or given away in a k ovide the sewage sludge to another faci	ied unless any of the following conditions apply: concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of it out B.4 instead) (EQ Studge); or larger or other container for application to the land (fill out B.5 instead); or lity for treatment or blending (fill out B.6 instead). lity for treatment or blending (fill and applied.
	Identi	fication of Land Application Sit	
	a.	Site name or number:	
	b.	Site location (Complete i and	lii)
		i. Street or Route#:	· · · · · · · · · · · · · · · · · · ·
		County:	
		City or Town:	State: Zip:
			Longitude:
			ongitude determination
		USGS map	Filed survey Other
	c.		topographic map (or other appropriate map if a topographic map is
		unavailable) that shows the s	ite location.
		r Information.	4 40 1 1 0 7
	a.		d application site?YesNo
	b.	If no, provide the following i	
		Name:	
		Street of P.O. Box:	*71
		City or Town.	State: Zip:
		ritoric. (	
	Annlis	er Information:	
•	a.		ies, or who is responsible for application of, sewage sludge to this land
		application site?Yes	
	b.		nformation for the person who applies the sewage sludge:
		Street or P.O. Box:	
		City or Town:	State: Zip:
	C.	List, on this form or an attack	nment, the numbers of all federal, state or local permits that regulate the person
		who applies sewage sludge to	this land application site:
		Permit Number:	Type of Permit:
		ype. Identify the type of land ap	oplication site from among the following:
		ricultural land	Reclamation siteForest Other. Describe
	Pul	blic contact site	Other. Describe
,		r Attraction Reduction.	
			quirements met when sewage sludge is applied to the land application site?
	Y	esNo If yes, answer a an	
	a.	Indicate which vector attracti	
		Option 9 (Injection below	
		Option 10 (Incorporation	
	b.		another sheet of paper, any treatment processes used at the land application site
		to reduce the vector attraction	n properties of sewage sludge:

FACII	LITY NA	VIE:			*	VPDES PERMIT NUMBER:
6.	Cumula	tive Loadings and Remainin	g Allotments.			
				is site since.	fuly 20, 1993 is st	ibject to the cumulative pollutant loading rates
	(CPLRs)	- see instructions.)				
	a.	Have you contacted DEQ o	r the permittin	ig authorit	y in the state v	where the sewage sludge subject to the
		CPLRs will be applied to a	scertain wheth	er bulk sev	vage sludge si	ibject to the CPLRs has been applied to
		this site since July 20, 1993	3?Yes	No.		
		If no, sewage sludge subject			be applied to t	his site.
		If yes, provide the followin	g information:			
		Permitting authority:				whetherd—
		Contact person:				
		Phone:( )				
	b.					PLRs been applied to this site since July 20.
		1993?YesNo If n	o, skip the rest	of Questi	on 6. If yes, a	nswer questions c - e.
	c.	Site size, in hectares:			(01	ne hectare = 2.471 acres) ars that is sending or has sent sewage
	d.	Provide the following infor	mation for eve	ery facility	other than you	ars that is sending or has sent sewage
		ore than one such facility sends sewage				
		sludge to this site, attach a	dditional page	s as necess	ary.	
		Facility name:				
		Facility contact:				·······
		Title:				
		Phone: ( )				
		Mailing address.				
		Street or P.O. Box:				
		City or Town:		State:	Zip:	
	e.					for each of the following pollutants:
			Cumulative lo	ading	Allotment re	emaining
		Arsenie				
		Cadmium				_
		Copper				
		Lead				norm.
		Mercury				
		Nickel				
		Selenium				_
		Zinc				qui.
these qu	uestions may	: 7-12 below only if you apply sew: be prepared as attachments to th who is responsible for the operation	is form. Skip the	are responsi following qu	ible for land applestions if you con	lication of sewage sludge. Information required by stract land application to someone else (as indicated
7.	Sludge		able below or a	ı separate a	ittachment, pr	ovide at least one analysis for each
		PCBs (mg/kg)				
		pH (S. U.)				
		Percent Solids (%)				
		Ammonium Nitrogen (mg	/kg)			
		Nitrate Nitrogen (mg/kg)				
		Total Kjeldahl Nitrogen (r				
		Total Phosphorus (mg/kg)				
		Total Potassium (mg/kg)				
		Alkalinity as CaCO3* (mg.	/kg)			

Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO<sub>3</sub>.

6.

Ground Water Monitoring.

Are any ground water monitoring data available for this land application site? Yes No If ves, submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

12. Land Application Site Information.

> (Complete Items and for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage studge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service Ecological Services 6669 Short Lane Gloucester, VA 23061 TEL: (804) 693-6694

Provide a copy of the notification letter with this application form.

 d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

#### Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site.

  Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
  - 1). Soil symbol
  - 2). Soil series, textural phase and slope range
  - 3). Depth to seasonal high water table
  - 4). Depth to bedrock
  - 5). Estimated soil productivity group (for the proposed crop rotation)

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

Manganese (ppm)
Particle Size Analysis or
USDA Textural Estimate (%)

FAC	ILITY NAME:	auditive Contaction of the activity of the act	VPDES PERMIT N	UMBER:	
	Si	EWAGE SLUDGE APPLICATION	N AGREEMENT		
This :	sewage sludge application agreen	ment is made on this date	between		
	s the "Permittee".	referred to here as "landowner", an	иl	, referred to	
nore a	is the Terminace.				
		d land shown on the map attached("landowner's land"). Permittee	e agrees to apply and landowner	agrees to comply	
		wing application of sewage sludge which is hele		ts and in a manner	
condi	tioning to the property. Moreover, the following site restricts:	propriate application of sewage sluc ver, landowner acknowledges havi- ctions must be adhered to when sev	ing been expressly advised that,	in order to protect	
Î.	-	rts that touch the sewage sludge/schs after application of sewage slud	*	e the land surface shall	
2.	Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for four months or longer prior to incorporation into the soil;				
3.	Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation into the soil;				
4.	Food crops, feed crops, and fi	iber crops shall not be harvested fo	or 30 days after application of sc	wage sludge:	
5.	Animals shall not be grazed of	on the land for 30 days after applic	cation of sewage sludge;		
6.	sewage sludge when the harv	wage sludge is applied shall not be ested turf is placed on either land t the State Water Control Board;			
7.	Public access to land with a h sewage sludge;	nigh potential for public exposure s	shall be restricted for one year a	fter application of	
8.	Public access to land with a lessewage sludge.	ow potential for public exposure sh	nall be restricted for 30 days after	er application of	
9.		shown to accumulate cadmium, shon of sewage sludge borne cadmium			
specif		or landowner's designee of the prop lication to landowner's land. This below.			
	Landowner:	Permittee:	:		
	Signature	S	Signature		

Mailing Address

Mailing Address

FACIL	ITY NA	ME: VPDES PERMIT NUMBER:
		SECTION D. SURFACE DISPOSAL
Complete	e this sectio	on only if you own or operate a surface disposal site. Frovide the information for each active sewage sludge unit.
1.	Informa	ition on Active Sewage Sludge Units.
• •	a.	Unit name or number:
	b.	Unit location
		i. Street or Route#:
		County:
		City or Town:State:Zip:
		ii. Latitude: Longitude:
		Method of latitude/longitude determination
		USGS map Filed survey Other
	C,	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.
	d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:
	e.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:  dry metric tons.
	ť.	Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of
		1 x 10 <sup>-7</sup> cm/sec?YesNo If yes, describe the liner or attach a description.
	g.	Does the active sewage sludge unit have a leachate collection system?YesNo
		If yes, describe the leachate collection system or attach a description. Also, describe the method used for leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:
		reactiate disposar and provide the numbers of any reactar, state or rocal permits for reactiate disposar.
	h.	If you answered no to either f or g, answer the following:
	**-	Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface
		disposal site?YesNo If yes, provide the actual distance in meters:
	ī.	Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons
		Anticipated closure date for active sewage sludge unit, if known: (MM/DD/YYYY)
		Provide with this application a copy of any closure plan developed for this active sewage sludge unit.
2.	Sewage	Sludge from Other Facilities.
		ge sludge sent to this active sewage sludge unit from any facilities other than yours?YesNo
	If yes, p	rovide the following information for each such facility, attach additional sheets as necessary.
	a.	Facility name:
	Ъ.	Facility contact:
		Title:
		Phone: ( )
	c.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip:
	d.	List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other
		federal, state or local permits that regulate the facility's sewage sludge management practices:
		Permit Number: Type of Permit:
	~	Which class of pathogen reduction is achieved before sewage sludge leaves the other facility?
	e.	Class A Class B Neither or unknown
	£.	Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to
	£.	reduce pathogens in sewage sludge:
		record pulsagens in serrige starge.

FACILITY	NAME: VPDES PERMIT NUMBER:
g,	Which vector attraction reduction option is achieved before sewage sludge leaves the other facility?  Option 1 (Minimum 38 percent reduction in volatile solids)  Option 2 (Anaerobic process, with bench-scale demonstration)  Option 3 (Aerobic process, with bench-scale demonstration)  Option 4 (Specific oxygen uptake rate for aerobically digested sludge)  Option 5 (Aerobic processes plus raised temperature)  Option 6 (Raise pH to 12 and retain at 11.5)  Option 7 (75 percent solids with no unstabilized solids)  Option 8 (90 percent solids with unstabilized solids)  None or unknown
h.	Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce vector attraction properties of sewage sludge:
i.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by the other facility that are not identified in e - h above:
3. Ve a. b.	which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit?  Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) Option 11 (Covering active sewage sludge unit daily) Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge
Ü.	unit to reduce vector attraction properties of sewage sludge:
4. G1 a. b. c.	ls ground water monitoring currently conducted at this active sewage sludge unit or are ground water monitoring data otherwise available for this active sewage sludge unit?YesNo If yes, provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.  Has a ground water monitoring program been prepared for this active sewage sludge unit?YesNo If yes, submit a copy of the ground water monitoring program with this application.  Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated?YesNo If yes, submit a copy of the certification with this application.
Λı —	e-Specific Limits.  e you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit?  YesNo If yes, submit information to support the request for site-specific pollutant limits with this plication.

## VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

#### SCREENING INFORMATION

This application is divided into four sections. Section A pertains to all applicants. The applicability of Sections B, C and D depends on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1.	All applicants must complete Section A (General Information).
2.	Does this facility generate sewage sludge? X Yes No
	Does this facility derive a material from sewage sludge? Yes X No
	If you answered "Yes" to either, complete Section B (Generation Of Sewage Sludge or Preparation Of A Material Derived From Sewage Sludge).
3.	Does this facility apply sewage sludge to the land? Yes X No
	Is sewage sludge from this facility applied to the land? Yes X No
	If you answer "No" to all above, skip Section C.
	If you answered "Yes" to either, answer the following three questions: NA
	<ul> <li>Does the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions?</li> <li>Yes</li> <li>No</li> </ul>
	<ul> <li>Is sewage sludge from this facility placed in a bag or other container for sale or give-away for application to the land?</li> <li>Yes</li> <li>No</li> </ul>
	c. Is sewage sludge from this facility sent to another facility for treatment or blending? Yes No
	If you answered "No" to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you answered "Yes" to a, b or c, skip Section C.
4.	Do you own or operate a surface disposal site? Yes N No
	If "Yes", complete Section D (Surface Disposal).

2.

3.

## SECTION A. GENERAL INFORMATION

All applicants must complete this section.

ì.	Fa	cility Information.						
	а.	Facility name: Elk Hill Farm						
	b.	Contact person: Michael L. Cook						
		Title: Consultant						
		Phone: (804) 994-2088						
	C.	Mailing address:						
		Street or P.O. Box: P.O. Box 13						
		City or Town: Doswell State: VA Zip: 23047						
	d.	Facility location:						
		Street or Route #: 1975 Elk Hill Rd.						
		County: Goochland						
		City or Town: Goochland State: VA Zip: 23063						
	e.	Is this facility a Class I sludge management facility? Yes X No						
	f.	Facility design flow rate: .0125 mgd						
	g.	Total population served: 125						
	h.	Indicate the type of facility:						
		Publicly owned treatment works (POTW)						
		X Privately owned treatment works						
		Federally owned treatment works						
		Blending or treatment operation						
		Surface disposal site						
		Other (describe):						
2.	Ap	plicant Information. If the applicant is different from the above, provide the following:						
	a.	Applicant name: TetraOps LLC / Michael L. cook						
	b.	Mailing address:						
		Street or P.O. Box; P.O. Box 13						
		City or Town: Doswell State: VA Zip: 23047						
	C.	Contact person: Michael L. Cook						
		Title: Consultant						
		Phone: ( 804 ) 994-2088						
	d.	Is the applicant the owner or operator (or both) of this facility?  owner X operator						
	e.	Should correspondence regarding this permit be directed to the facility or the applicant?  facility X applicant						
3.	Per	mit Information.						
	<b>a</b> .	Facility's VPDES permit number (if applicable): VA0062731						
	b.	List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices:						
		Permit Number: Type of Permit:  None						

- 4. Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this facility occur in Indian Country? Yes X No If "Yes", describe:
- Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the
  - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
  - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.
- Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge generation, treatment, use or disposal the responsibility of a contractor? X Yes XXXII

If "Yes", provide the following for each contractor (attach additional pages if necessary).

Name: Dillion's Septic Hauling

4 wheel Drive Specialing Converses Die albla M. Johns

Mailing address:

Street or P.O. Box: 305 S. Washington Hwy

1936 CARTUS MILL 125,

City or Town: Ashland State: VA Zip: 23047

CAPTURULIE VA 23027

Phone: (804) 798-4471

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

NA

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seg, for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic		94 (1944)		
Cadmium		Profession Plans de Pale de La Maria de Pale d		
Chromium		en de aux destreta en antique de la servación de la major de la maria de la maria de la definida de la manda d	The state of the s	
Copper		ere for works with derivative the standard and an account and account and account and account and account and a		
Lead	And the state of t		A CONTRACTOR OF THE PARTY OF TH	
Mercury	**************************************	and and a second of the second	**************************************	
Molybdenum				
Nickel				
Selenium	epitimini timidimini imminimina ti tati ama anti atlantia nama da antimi, ana antimi ana ita antimina anti ant I			
Zinc				

- 9. Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:
  - X Section A (General Information)
  - X Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
  - X Section C (Land Application of Bulk Sewage Sludge)
  - X Section D (Surface Disposal)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name and official title Michael L. Cook Consultant							
Signature Washabet	Date Signed 30 April 2008						
Telephone number (804) 994-2088							

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

# SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1.	Amount Generated On Site.  Total dry metric tons per 365-day period generated at your facility: ~ A dry metric tons						
2.	dis	nount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or posal, provide the following information for each facility from which sewage sludge is received. If you receive sewage from more than one facility, attach additional pages as necessary.					
	a.	Facility name: See See See See See See See See See S					
	b.	Contact Person:					
		Title:					
		Phone: ( )					
	C.	Mailing address:					
		Street or P.O. Box:					
		City or Town: State: Zip:					
	d.	Facility location:					
		(not P.O. Box)					
	e.	Total dry metric tons per 365-day period received from this facility: dry metric tons					
	Choud.	Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:					
<b>)</b> ,	Tro	eatment Provided at Your Facility.  Which class of pathogen reduction is achieved for the sewage sludge at your facility?					
		Class A Class B X Neither or unknown					
	b.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce					
		pathogens in sewage sludge:					
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility?					
		Option 1 (Minimum 38 percent reduction in volatile solids)					
		Option 2 (Anaerobic process, with bench-scale demonstration)					
		Option 3 (Aerobic process, with bench-scale demonstration)					
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)					
		Option 5 (Aerobic processes plus raised temperature)					
		Option 6 (Raise pH to 12 and retain at 11.5)					
		Option 7 (75 percent solids with no unstabilized solids)					
		Option 8 (90 percent solids with unstabilized solids)					
		None or unknown					
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector					
		attraction properties of sewage sludge: NA					
	c.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including					
		blending, not identified in a - d above: NA					

4.	Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and
	One of Vector Attraction Reduction Options 1-8 (EQ Sludge). NA

(If sewage sludge from your facility does not meet all of these criteria, skip Question 4.)

- a. Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: 0 dry metric tons
- b. Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? Yes X No
- Sale or Give-Away in a Bag or Other Container for Application to the Land.

(Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this question if sewage sludge is covered in Question 4.)

- a. Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: 0 dry metric tons
- b. Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.
- Shipment Off Site for Treatment or Blending.

(Complete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question does not apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.)

a.	Receiving facility name: WA CIEG CP Pachage d.
b.	Facility contact: Dast of Public Limites
	Title: General Smitch beard
	Phone: ( <u> </u>
c.	Mailing address:
	Street or P.O. Box:
	City or Town:
d.	Total dry metric tons per 365-day period of sewage sludge provided to receiving facility:
	dry metric tons
e.	List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices:
	Permit Number: Type of Permit:
ſ.	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? x_YesNo
	Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?  Class A Class B Neither or unknown
	Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce
	pathogens in sewage sludge:
	IAW Permitted significant
g.	Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge?
	Which vector attraction reduction option is met for the sewage sludge at the receiving facility?

PM REPARE

## FACILITY NAME: Elk Hill Farm **VPDES PERMIT NUMBER: VA0062731** Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) \_\_\_\_\_\_ None unknown Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge: h. Does the receiving facility provide any additional treatment or blending not identified in f or g above? x Yes No If "Yes", describe, on this form or another sheet of paper, the treatment processes not identified in f or g above: If you answered "Yes" to f, g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G. Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land? \_\_\_\_ Yes \_\_\_ No If "Yes", provide a copy of all labels or notices that accompany the product being sold or given away. Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? \_\_\_\_\_\_ No. If "No", provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility. Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week and the times of the day sewage sludge will be transported. V 401.00 7. Land Application of Bulk Sewage Sludge. NA (Complete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6. Complete Question 7,b, c & d only if you are responsible for land application of sewage sludge.) a. Total dry metric tons per 365-day period of sewage sludge applied to all land application sites: dry metric tons Do you identify all land application sites in Section C of this application? Yes \_\_\_\_\_ No If "No", submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions). Are any land application sites located in States other than Virginia? \_\_\_\_\_ Yes \_\_\_\_\_ No If "Yes", describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.

d. Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).

## 8. Surface Disposal.

9.

(C	omplete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)						
a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal						
	sites: dry metric tons						
b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?  Yes No						
	If "No", answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.						
C.	Site name or number:						
d.	Contact person:						
	Title:						
	Phone: ( )						
	Contact is: Site Owner Site operator						
e.	Mailing address:						
	Street or P.O. Box:						
	City or Town: State: Zip:						
ſ.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal						
	site: dry metric tons						
g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site:						
	Permit Number: Type of Permit:						
	cineration.    complete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)  Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge						
1	incinerator: dry metric tons						
b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?  Yes No						
	If "No", answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.						
C.	Incinerator name or number:						
đ.	Contact person:						
	Title:						
	Phone: ( )						
	Contact is: Incinerator Owner Incinerator Operator						
e.	Mailing address:						
	Street or P.O. Box:						
	City or Town: State: Zip:						
ſ.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge						
	incinerator: dry metric tons						
g.	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the firing						

**FACILITY NAME: Elk Hill Farm** 

**VPDES PERMIT NUMBER: VA0062731** 

	of sewage sludge at this	incinerator:		
	Permit Number:	Type of Permit:		
Di	sposal in a Municipal So	lid Waste Landfill. 🖊🌣		
fol	llowing information for ea	ach municipal solid waste l	andfill on which sewage	cipal solid waste landfill. Provide the sludge from your facility is placed. h additional pages as necessary.)
a.	Landfill name:			
b.				>
	Contact is: Land	lfill Owner Landfi	ll Operator	
C.	Mailing address:			
	Street or P.O. Box:			
	City or Town:		State:	Zip:
d.	Landfill location.			
	Street or Route #:			
	County:			
	City or Town:	thii 111141 11014100 11 Phillillithidillihahahahahahahahaha sahid daha atad dahasaman	State:	Zip:
e.	Total dry metric tons per	r 365-day period of sewage	sludge placed in this mun	nicipal solid waste landfill:
	dry metr	ic tons		
f.	List, on this form or an a this municipal solid was		all federal, state or local p	permits that regulate the operation of
	Permit Number:	Type of Permit:		
g.	80-10 et seq., concerning	t applicable requirements in g the quality of materials dis	sposed in a municipal sol	e Management Regulation, 9 VAC 20 id waste landfill?
h.		waste landfill comply with 9 VAC 20-80-10 et seq.?		forth in the Virginia Solid Waste
ì.	Will the vehicle bed or o watertight and covered?		port sewage sludge to the	municipal solid waste landfill be
	Show the haul route(s) o	n a location map or briefly of	describe the route below a	and indicate the days of the week
	and time of the day sewa	ao chudos náll ho trancoceto	vi	

### SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE NA

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

- The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EO Sludge); or
- The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or
- You provide the sewage sludge to another facility for treatment or blending (fill out B,6 instead).

Complete Section C for every site on which the sewage sludge that you reported in B.7 is land applied.

	100	entif	ication of Land Applic	ation Site.				
	ā.	Sit	e name or number:		······			
	b.	Site	e location (Complete i a	nd ii)				
		Ì.	Street or Route#:	MARA PANTAN ASSIPA MANAAAN MANAWA MANAWA WALIO MATA PASASIMA AND MANAAA AND MANAAA MANAAA MANAAA MANAAA MANAAA				
			City or Town:			State:	Zip;	
		Íİ.	Latitude:	Longitud	k:		\$	
			Method of latitude/lon USGS map	2	Othe	Ť		
	C.		pographic map. Providences the site location.	e a topographic map (or othe	er appropriate	map if a to	pographic map is	unavailable) that
	Ow	vner	Information.					
	a.	An	e you the owner of this l	and application site?	Yes	No		
	b.	If "	'No", provide the follow	ing information about the ov	wner:			
		Na	me:					
	An		r Information:					
	a.	Arc		plies, or who is responsible	for application	n of, sewage	sludge to this lar	nd application site?
	b.	lf "	'No", provide the follow	ing information for the pers	on who applie	s the sewag	c sludge:	
		Na	me:					
	C.	Lis	t, on this form or an att	schment, the numbers of all is land application site:		or local per	mits that regulate	the person who
		Per	mit Number:	Type of Permit:				
		~~~~						
							·····	
•	Site	е Ту	<b>pe.</b> Identify the type of	land application site from a	mong the follo	owing:		
•		-	pe. Identify the type of Agricultural land	land application site from a	_	owing:Forest		

Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site?

FA	CIL	ITY NAME:	EIK Hill F	arm	NA		VPDES PERMIT NUMBER: VA0062731
		Yes	No If"	Yes", answer a an	db.		
	a.	Indicate which	ch vector at	traction reduction	option is m	et:	
Option 9 (Injection below land surface)							
		Optio	n 10 (Incor	poration into soil v	vithin 6 hou	ırs)	
	b.			or on another sheet tion properties of s			nt processes used at the land application site to
6.				Remaining Allotn		o this site s	since July 20, 1993 is subject to the cumulative
				LRs) - see instruc			
	a.		ascertain v	vhether bulk sewa			where the sewage sludge subject to the CPLRs will CPLRs has been applied to this site since July 20,
				subject to the CPLI	=	be applied t	to this site.
		If "Yes", pro	vide the fol	lowing informatio	1:		
		Permitting a	-				
		Contact pers					
	b.	Based upon t	his inquiry	, has bulk sewage	sludge subje	ct to the CI	PLRs been applied to this site since July 20, 1993? "Yes", answer questions c - e.
	C.	Site size, in l	nectares: _	(one	hectare = 2	1.471 acres)	
	d.		s to this site	since July 20, 199			urs that is sending or has sent sewage sludge subject the facility sends sewage sludge to this site, attach
		Facility name	ā.		·————		
		Facility conta	act:	······································		***************************************	
		Mailing addr	ress.				
		Street or P.O	. Box:				
		City or Town	ı:			St	ate:Zip:
	e.	Provide the to	otal loading	g and allotment rer	naining, in	kg/hectare,	for each of the following pollutants:
				Cumulative load	ling /	Allotment re	emaining
		Arsenic					
		Cadmiur	n				<del></del>
		Copper					
		Lead					anninananananinan-na-k
		Mercury				·	
		Nickel		<del></del>			
		Seleniun	1				
		Zinc					MANAGEMERAN

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage

sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.

PCBs (mg/kg)	
pH (S. U.)	
Percent Solids (%)	
Ammonium Nitrogen (mg/kg)	
Nitrate Nitrogen (mg/kg)	
Fotal Kjeldahl Nitrogen (mg/kg)	
Total Phosphorus (mg/kg)	
Total Potassium (mg/kg)	Am (
Alkalinity as CaCO <sub>3</sub> * (mg/kg)	

### 8. Storage Requirements.

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
  - 1) Water wells, abandoned or operating
  - 2) Surface waters
  - 3) Springs
  - 4) Public water supply(s)
  - 5) Sinkholes
  - 6) Underground and/or surface mines
  - 7) Mine pool (or other) surface water discharge points
  - 8) Mining spoil piles and mine dumps
  - 9) Quarry(s)
  - 10) Sand and gravel pits
  - 11) Gas and oil wells
  - 12) Diversion ditch(s)
  - 13) Agricultural drainage ditch(s)
  - 14) Occupied dwellings, including industrial and commercial establishments
  - 15) Landfills or dumps
  - 16) Other unlined impoundments
  - 17) Septic tanks and drainfields
  - 18) Injection wells
  - 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
  - 1) Maximum and minimum percent slopes
  - 2) Depressions on the site that may collect water
  - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
  - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- c. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.

Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO<sub>3</sub>.

- 9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN). Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.
- 10. Landowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.

#### 11. Ground Water Monitoring.

Are any ground water monitoring data available for this land application site? Yes No

If "Yes", submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

#### 12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U.S. Fish and Wildlife Service

Virginia Field Office

P.O. Box 480

White Marsh, VA 23183

TEL: (804) 693-6694

Provide a copy of the notification letter with this application form.

 d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

#### Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site. Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
  - 1) Soil symbol
  - 2) Soil series, textural phase and slope range
  - 3) Depth to seasonal high water table
  - 4) Depth to bedrock

- 5) Estimated soil productivity group (for the proposed crop rotation)
- f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)	
Soil pH (std. units)	**************************************
Cation Exchange Capacity (meq/100g)	
Total Nitrogen (ppm)	
Organic Nitrogen (ppm)	
Ammonia Nitrogen (ppm)	
Nitrate Nitrogen (ppm)	
Available Phosphorus (ppm)	
Exchangeable Potassium (mg/100g)	
Exchangeable Sodium (mg/100g)	
Exchangeable Calcium (mg/100g)	
Exchangeable Magnesium (mg/100g)	
Arsenic (ppm)	
Cadmium (ppm)	// // // // AAAAA AAAAA
Copper (ppm)	
Lead (ppin)	
Mercury (ppm)	
Molybdenum (ppm)	
Nickel (ppm)	
Selenium (ppm)	
Zinc (ppm)	
Manganese (ppm)	
Particle Size Analysis or USDA Textural Estimate (%)	

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

## SEWAGE SLUDGE APPLICATION AGREEMENT

Th	is sewage sludge application agreement is made on this	s date	between					
	, referred to here a							
rel	Ferred to here as the "Permittee".							
La	ndowner is the owner of agricultural land shown on the	map attached as Exhibit A and designated	there as					
wi	("landowner's lan th certain permit requirements following application of	d"). Permittee agrees to apply and landown sewage sludge on landowner's land in amou						
a r	nanner authorized by VPDES permit number	which is held by the Permi	ttee.					
co pu	ndowner acknowledges that the appropriate application nditioning to the property. Moreover, landowner ackno blic health, the following site restrictions must be adher function:	wledges having been expressly advised that,	in order to protect					
1.	Food crops with harvested parts that touch the sewage be harvested for 14 months after application of sewage		e land surface shall not					
2.	Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for four months or longer prior to incorporation if the soil;							
3.	Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation into the soil;							
4.	Food crops, feed crops, and fiber crops shall not be ha	rvested for 30 days after application of sewa	ge sludge;					
5.	Animals shall not be grazed on the land for 30 days at	fter application of sewage sludge:						
6.	Turf grown on land where sewage sludge is applied st sludge when the harvested turf is placed on either land otherwise specified by the State Water Control Board:	d with a high potential for public exposure o	cation of the sewage r a lawn, unless					
7.	Public access to land with a high potential for public osludge:	exposure shall be restricted for one year after	application of sewage					
⋠.	Public access to land with a low potential for public exsludge.	xposure shall be restricted for 30 days after a	pplication of sewage					
),	Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of sewage sludge borne cadmium equal to or exceeding 0.5 kilograms/hectare (0.45 pounds/acre).							
pe	mittee agrees to notify landowner or landowner's design cifically prior to any particular application to landowne tten notice to the address specified below.	nee of the proposed schedule for sewage sluc er's land. This agreement may be terminated	ge application and by either party npon					
	Landowner:	Permittee:						
	Signature	Signature						
	Mailing Address	Mailing Address						

### SECTION D. SURFACE DISPOSAL

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

I.	in	formation on Active Sewage Sludge Units.
	a.	
	b.	Unit location
		i. Street or Route#:
		County:
		City or Town: State: Zip:
		ii. Latitude: Longitude:
		Method of latitude/longitude determination USGS map Filed survey Other
	C.	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.
	d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:
	e.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:  dry metric tons.
	f.	Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of 1 x 10° cm/sec?  Yes No If "Yes", describe the liner or attach a description.
	g.	Does the active sewage sludge unit have a leachate collection system? Yes No
		If "Yes", describe the leachate collection system or attach a description. Also, describe the method used for leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:
	1.	TC Jenier Jeni
	h.	If you answered "No" to either f or g, answer the following:  Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site?  Yes No If "Yes", provide the actual distance in meters:
	i.	Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons
		Anticipated closure date for active sewage sludge unit, if known: (MM/DD/YYYY)
		Provide with this application a copy of any closure plan developed for this active sewage sludge unit.
2.	Sev	wage Sludge from Other Facilities.
	Is s	sewage sludge sent to this active sewage sludge unit from any facilities other than yours? Yes No
		Yes", provide the following information for each such facility, attach additional sheets as necessary.
	a.	Facility name:
	b.	Facility contact:
		Title:
		Phone: ( )
	C.	Mailing address:
		Street or P.O. Box:

	City or Town: State: Zip:
d.	
	Permit Number: Type of Permit:
e.	Which class of pathogen reduction is achieved before sewage sludge leaves the other facility?
f.	Class A Class B Neither or unknown  Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to reduce pathogens in sewage sludge:
g.	Which vector attraction reduction option is achieved before sewage sludge leaves the other facility?  Option 1 (Minimum 38 percent reduction in volatile solids)  Option 2 (Anaerobic process, with bench-scale demonstration)  Option 3 (Aerobic process, with bench-scale demonstration)
	Option 4 (Specific oxygen uptake rate for aerobically digested sludge)  Option 5 (Aerobic processes plus raised temperature)  Option 6 (Raise pH to 12 and retain at 11.5)
	Option 7 (75 percent solids with no unstabilized solids)  Option 8 (90 percent solids with unstabilized solids)
ħ.	None or unknown  Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce vector attraction properties of sewage sludge:
Ì.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by the other facility that are not identified in e - h above:
Ve	ctor Attraction Reduction.
a.	Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit?
	Option 9 (Injection below land surface)  Option 10 (Incorporation into soil within 6 hours)  Option 11 (Covering active sewage sludge unit daily)
b.	Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge:

4. Ground Water Monitoring.

**FACILITY NAME: Elk Hill Farm VPDES PERMIT NUMBER: VA0062731** Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water monitoring data otherwise available for this active sewage sludge unit? \_\_\_\_\_ Yes \_\_\_\_\_ No If "Yes", provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these data. b. Has a ground water monitoring program been prepared for this active sewage sludge unit? Yes No If "Yes", submit a copy of the ground water monitoring program with this application. Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated? Yes No If "Yes", submit a copy of the certification with this application. Are you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit?

### 5. Site-Specific Limits.

Yes \_\_\_\_\_ No If "Yes", submit information to support the request for site-specific pollutant limits with this application.

## Disclaimer

This is an updated PDF document that allows you to type your information directly into the form, print it, and save the completed form.

Note: This form can be viewed and saved only using Adobe Acrobat Reader version 7.0 or higher, or if you have the full Adobe Professional version.

#### Instructions:

- 1. Type in your information
- 2. Save file (if desired)
- 3. Print the completed form
- 4. Sign and date the printed copy
- 5. Mail it to the directed contact.



FORM 2A

## NPDES FORM 2A APPLICATION OVERVIEW

**NPDES** 

#### APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

#### **BASIC APPLICATION INFORMATION:**

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

#### SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
  - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
  - 2. Any other industrial user that
    - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
    - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
    - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

## ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

ΒA	SIC APPLICA	TION INF	ORMATION					
PAF	RT A. BASIC APPL	ICATION IN	FORMATION FOR A	LL APPLICANTS:				
All t	reatment works mus	l complete qu	estions A.1 through A.8	of this Basic Applicat	ion Information pac	ket.		
A.1. Facility Information.								
	Facility name	<u> </u>	K Hill FA.	m WW	7 P			
	Mailing Address	<u> </u>	O. Box Goschland	99 	3063			
	Contact person		<u> 3                                   </u>	<u> </u>				
	Title		JAINTENANE	<u> </u>	· • • • • • • • • • • • • • • • • • • •			
	Telephone number		4 h57-					
	Facility Address (not P.O. Box)		175 EUR	H.11 Rd ,VA 2300	5.3			
A.2.	Applicant Informati	on. If the appli	icant is different from the	above, provide the follow	wing;			
	Applicant name	<b>i</b> V	1.2421 1	- Cast 1º	TETRA CA	C ELL		
	Mailing Address PCBax 13							
	Contact person		1. chas L	. C	**************************************			
	Title	•	Santer					
	Telephone number		304 994	2088				
	owner		rator (or both) of the tre operator garding this permit shoul		ity or the applicant.			
	facility		applicant		, , , , , , , , , , , , , , , , , , , ,			
А.З.	Existing Environme works (include state-i			er of any existing enviro	nmental permits that i	have been issued to the treatment		
	NPDES VA	0062	731	PSD				
	UIC			Other	<u> </u>	4675266		
	RCRA			Other	r			
<b>A.4</b> .	Collection System In each entity and, if known etc.).	iformation. Provide inf	rovide information on mu formation on the type of c	nicipalities and areas se collection system (combi	rved by the facility. Fined vs. separate) and	Provide the name and population of fits ownership (municipal, private,		
	Name		Population Served	Type of Collec	tion System	Ownership		
	ELKHIIF	Arm	1 2 2	Gravis	<u> </u>	Euk Hill Farm		
**********************	Total pop	ulation served	125	-				

A.5.	Indian Country.					***************************************
	a. Is the treatment works located in Indian C	Country?				
	YesX No	o				
	b. Does the treatment works discharge to a through) Indian Country?	receiving water that is eithe	er in Indian Country or th	at is upstream fro	m (and eventua	illy flows
	Yes X No	o				
A.6.	Flow. Indicate the design flow rate of the treaverage daily flow rate and maximum daily floperiod with the 12th month of "this year" occur	ow rate for each of the last t	hree years. Each year'	s data must be bas	nandle). Also p sed on a 12-mo	rovide the nth time
	a. Design flow rate 0.0125 mgc	d				
		Two Years Ago	<u>Last Year</u>	This Yo	<u>ar</u>	
	b. Annual average daily flow rate	0006		£5.	<u> </u>	mgd
	c. Maximum daily flow rate	0 014	<u> </u>	<u> </u>	009	_ mgd
1.7.	Collection System. Indicate the type(s) of contribution (by miles) of each.	collection system(s) used by	the treatment plant. Ch	eck all that apply.	Also estimate	the percent
	Separate sanitary sewer				160	%
	Combined storm and sanitary sewe	:t				%
_	-			***************************************	***************************************	····
.8.	Discharges and Other Disposal Methods.					
	a. Does the treatment works discharge efflu	ent to waters of the U.S.?		Yes		No
	If yes, list how many of each of the follows	ring types of discharge point	s the treatment works u	ses:		
	i. Discharges of treated effluent					
	ii. Discharges of untreated or partially tre	eated effluent				
	iii. Combined sewer overflow points				0	
	iv. Constructed emergency overflows (pr	rior to the headworks)			ం	
	v. Other				0	
		<del></del>				***************************************
	<ul> <li>Does the treatment works discharge efflue impoundments that do not have outlets for</li> </ul>	-,		Var		**-
	If yes, provide the following for each surfa	•	0,3,1	Yes		_ No
	Location:	ice mpoundment.		NA		
	Annual average daily volume discharged	to custom importations		WA WA		
					mgd	
	Is discharge continuous or	intermittent?	(			
	c. Does the treatment works land-apply treat	ted wastewater?		Yes	X	No
	If yes, provide the following for each land	application site:				
	Location:	***************************************	***************************************		~~~	
	Number of acres:	***************************************				
	Annual average daily volume applied to si	te:	Mgd			
	Is land application continu	ous or interm	nittent?			
	d. Does the treatment works discharge or tra	ansport treated or untreated	wastewater to another			
:	treatment works?			Yes	<u> </u>	No

### FACILITY NAME AND PERMIT NUMBER:

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NA NA	
If transport is by a party other than the applicant, provide:	
Transporter name:	
Mailing Address:	
Contact person:	
Title:	
Telephone number:	
For each treatment works that receives this discharge, provide the following:	
Name:	
Mailing Address:	
Contact person:	
Title:	
Telephone number:	
If known, provide the NPDES permit number of the treatment works that receives this disc	charge.
Provide the average daily flow rate from the treatment works into the receiving facility.	T.
Does the treatment works discharge or dispose of its wastewater in a manner not included A.8.a through A.8.d above (e.g., underground percolation, well injection)?	d inYes <b>火</b> ∧
f yes, provide the following for each disposal method:	<b>-</b>
Description of method (including location and size of site(s) if applicable):	
Description of method (including location and size of site(s) if applicable):  Annual daily volume disposed of by this method:	

FACILITY NAME AND PERMIT NUMBER:

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VA 066 2731

#### WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

	والأرافي الأراوات	n.	
	Description of Outfal		
a.	. Outfall number	001	nduran — to in
b.	. Location	(20%)VI	23063
		(City or town, if applicable) くってにし	
		(County)	(State) (State) (State)
		(Latifude)	(Longitude)
C.	. Distance from sho	re (if applicable)	Aft.
ď.	. Depth below surfa	ice (if applicable)	∾A ft.
e.	. Average daily flow	irato	G ◇◇努 mgd
0.	. Tronge daily hore	1020	Manufacture (1) and the second of the second
f.		ave either an intermittent or a	
	periodic discharge	n <b>?</b>	Yes No (go to A.9.g.)
	If yes, provide the	following information:	
	Number of times p	per year discharge occurs:	
	Average duration of	of each discharge:	
	Average flow per o	discharge:	mgd
	Months in which di	ischarge occurs:	
g.	. Is outfall equipped	with a diffuser?	Yes No
0. D	Description of Receiv	ving Waters.	
a.		-	Little River UT 03
٤.	. Name of watershe	1 CEY	
ď.			T. P
	. Italie of watersie	d (if Known)	
		d (if known)  Conservation Service 14-digits	Region
c.	United States Soil		watershed code (if known):
c.	United States Soil  Name of State Mai	Conservation Service 14-digit v	watershed code (if known):
	United States Soil  Name of State Mai  United States Geo	Conservation Service 14-digit on agement/River Basin (if known logical Survey 8-digit hydrological Survey 8-digit	watershed code (if known):  n):  ic cataloging unit code (if known):  62885255
	United States Soil  Name of State Mai United States Geo Critical low flow of	Conservation Service 14-digit v	watershed code (if known):  n):  ic cataloging unit code (if known):  62885255
ď.	United States Soil  Name of State Mai  United States Geo  Critical low flow of acute	Conservation Service 14-digits nagement/River Basin (if known logical Survey 8-digit hydrologi receiving stream (if applicable)	watershed code (if known):  n): ic cataloging unit code (if known);  62686255

FACILITY NAME AND PERMIT NUMBER:	esemiliaritarailmase eser alla eses cilibro es à salla mes à consessana				Form Approved 1/14/99 OMB Number 2040-0086	
VA006273	1				UNIO 11 GENERAL 2040 5000	
A.11. Description of Treatment.	182121-1142-1142-1142-1142-1142-1142-114					
a. What levels of treatment are prov	ided? Check all the	at apply.				
Primary		econdary				
Advanced	OI	ther. Describe:				
b. Indicate the following removal rate	es (as applicable):					
Design BOD <sub>5</sub> removal <u>or</u> Design 0	CBOD <sub>s</sub> removal		entremanente an de caracterista en actual de	%		
Design SS removal			***************************************	%		
Design P removal			and development and an action and action action and action and action	45	<b>%</b>	
Design N removal			***************************************	%		
Other			***************************************	%		
c. What type of disinfection is used t	or the effluent fror	n this outfall? If disinf	ection varies by seas	on, please describ	oe.	
If disinfection is by chlorination, is	dechlorination use	ed for this outfall?	Yes		No	
d. Does the treatment plant have po	st aeration?		Yes		No	
A.12. Effluent Testing Information. All Apparameters. Provide the indicated edischarged. Do not include information collected through analysis conduct of 40 CFR Part 136 and other approach a minimum, effluent testing data	effluent testing re ation on combine ted using 40 CFR priate QA/QC rec	quired by the permi d sewer overflows i Part 136 methods. Juirements for stand	tting authority <u>for e</u> n this section. All ii In addition, this dat lard methods for an	ach outfall through formation report a must comply w alytes not addres	gh which effluent is ed must be based on data rith QA/QC requirements ssed by 40 CFR Part 136.	
Outail number.						
PARAMETER	MAXIMUM		AVERAGE DAILY	VALUE		
	Value	Units	Value	Units	Number of Samples	
pH (Minimum)	1.2	S.U.				
pH (Maximum)	7.6	s.u.				
Flow Pata	. 912	in LP	. 00\$	C D	1/2	

1/12 C Temperature (Summer) \* For pH please report a minimum and a maximum daily value MAXIMUM DAILY **POLLUTANT AVERAGE DAILY DISCHARGE** ANALYTICAL ML/MDL DISCHARGE METHOD Conc. Units Conc. Units Number of Samples CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. BIOCHEMICAL OXYGEN BOD-5 DEMAND (Report one) CBOD-5 FECAL COLIFORM TOTAL SUSPENDED SOLIDS (TSS)

END OF PART A.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

Temperature (Winter)

1/2

C

BA	SIC /	APPLICATION INFORMATION
PAF	RT B.	ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).
Alla	pplicant	s with a design flow rate ≥ 0.1 rngd must answer questions B.1 through B.6. All others go to Part C (Certification).
B.1.	Inflow	and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.
		<b>O</b> gpd
	Briefly	explain any steps underway or planned to minimize inflow and infiltration.
	***************************************	
B.2.	This m	graphic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. app must show the outline of the facility and the following information. (You may submit more than one map if one map does not show tire area.)
	a. Th	ne area surrounding the treatment plant, including all unit processes.
		e major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which pated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	c. Ea	ch well where wastewater from the treatment plant is injected underground.
		ells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment orks, and 2) listed in public record or otherwise known to the applicant.
	e. Ar	ny areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	tru	the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by lick, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or sposed.
	backup chlorina	s Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., ation and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily es between treatment units. Include a brief narrative description of the diagram.
B.4.	Operat	ion/Maintenance Performed by Contractor(s).
	Are any contrac	operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a tor? YesNo
		ist the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional finecessary).
	Name:	TETRA OP & LLC.
	Mailing	Address: P. O Bax 13
		Pasmell VA
	Telepho	one Number: 804-994-2088
	Respon	sibilities of Contractor: Consultant
	uncomp treatme	aled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or pleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the nt works has several different implementation schedules or is planning several improvements, submit separate responses to question each. (If none, go to question B.6.)
	a. Lis	at the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
		<b>₩</b>
	b. Inc	dicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.
		YesNo

		energenisme an automorphism et a marine une anno anno anno anno anno anno anno an						
FACILITY	/ NAME AND PERI	MIT NUMBER:						proved 1/14/99 mber 2040-0086
	VA 30	62731						
¢	If the answer to B.				um daily inflow	rate (if applicat	de).	
	~ <u>~</u>		·····	*************				
ď	ma data atau dan				w			
ď.	Provide dates imposed by any compliance schedule or any actual date: applicable. For improvements planned independently of local, State, o applicable. Indicate dates as accurately as possible.							
			Schedule	Ad	tual Completio	n		
	Implementation Sta	age	MM / DD /	YYYY MI	M / DD / YYYY			
	- Begin construction	on	//_					
	- End construction				1			
	- Begin discharge		//		_//			
	- Attain operationa	il jevel		- Annual Control of the Control of t				
e.	Have appropriate p	rasmite (classoneae	cancamina atl	har Eadaral/State	ramiramanto l	haan ahtainad?	Yes	No
е.			•		•	oven optameu:	3 62	NO
	Describe briefly: _							
	-		·····	***************************************				
App test ove met star	ting required by the orflows in this section thods. In addition, to	ge to waters of the permitting authorit n. All information his data must com analytes not addres	e US must proving for each outforted must be uponed must be uponed by 40 CFF seed by 40 CFF	ide effluent testir all through which be based on data C requirements o R Part 136. At a	effluent is disc collected throu 440 CFR Part 1	<u>harged.</u> Do not igh analysis cor 136 and other ap	eters. Provide the indinclude information of inducted using 40 CFF oppropriate QA/QC requisit be based on at	n combined sewer Part 136 uirements for
•	fall Number:		n iour and one-	-rian years oru.				
	DLLUTANT	·		Alimoxo	F mail of minor			· · · · · · · · · · · · · · · · · · ·
۳۱	JEEU I AN I	MAXIMUN DISCHA		AVERAG	E DAILY DISC	HARGE		
		Conc.	Units	Conc.	Units	Number of Samples	ANALYTICAL METHOD	ML / MDL
CONVENT	TIONAL AND NON	CONVENTIONAL	COMPOUNDS	<u> </u>				***************************************
AINOMMA	(as N)					T		
CHLORIN	E (TOTAL		***************************************		**************			
RESIDUA	L, TRC)	444		one of the control of				
DISSOLV	ED OXYGEN						***	444-4-444-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-
TOTAL KJ					***************************************			
VITROGE								
VITROGE						THE PERSON NAMED IN COLUMN NAM		
OIL and G	REASE	***************************************						

END OF PART B.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

PHOSPHORUS (Total)
TOTAL DISSOLVED
SOLIDS (TDS)
OTHER

FACILITY NAME AND PE	RMIT NUMBER:		Form Approved 1/14/99 OMB Number 2040-0086			
V4 00	062731		Onia Number 2040-0006			
BASIC APPLICATION INFORMATION						
PART C. CERTIFICATI	ON					
All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.						
Indicate which parts of Fe	orm 2A you have comple	ted and are submitting:				
Basic Applicat	ion Information packet	Supplemental Application	Information packet:			
		Part D (Expanded	Effluent Testing Data)			
		Part E (Toxicity Te	esting: Biomonitoring Data)			
		Part F (Industrial I	User Discharges and RCRA/CERCLA Wastes)			
		Part G (Combined	Sewer Systems)			
ALL APPLICANTS MUST	COMPLETE THE FOLLO	WING CERTIFICATION.				
designed to assure that qui who manage the system or	alified personnel properly g r those persons directly res complete. I am aware that i	ather and evaluate the inform ponsible for gathering the info	under my direction or supervision in accordance with a system nation submitted. Based on my inquiry of the person or persons ormation, the information is, to the best of my knowledge and for submitting false information, including the possibility of fine			
Name and official title	<u>, M.</u>	hael L Cook	S, consultant.			
Signature	4	JH.				
Telephone number	<u> </u>	04 994 2	* * * *			
Date signed	) o A-1	- L C &				
Upon request of the permits works or identify appropriate		omit any other information ne	cessary to assess wastewater treatment practices at the treatment			

## SEND COMPLETED FORMS TO:

CHODI	ESSERVED	A DOLLO A TION	INFORMATION

MA.

#### PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE						
PACTAL C. (TOTAL DECOVEDAD) E.	Conc.		Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
METALS (TOTAL RECOVERABLE	, CYANIDE,	PHENO	LS, AND	HARDNE	SS.	5- <b></b>					
ANTIMONY	indos/(Lea)idikubaharan				Salah Colonia	PPI) A CALABADA A CAPPER PPI	nava 64.00millari)A) Gymano	and the second s			
ARSENIC	The state of the s				Property Constitution	pre-employ real to the control of th	Nemana Polyco	And distance days in quay years			
BERYLLIUM	Analys				OMF STATE OF	ALL LONG CONTRACTOR CO		A STATE OF THE STA			
CADMIUM	man managaman da ma							Annual Property and Annual			
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COPPER	A CONTRACTOR OF THE PARTY OF TH									**************************************	***************************************
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MERCURY											terbieri de d'emmerca de manera
VICKEL											**************************************
SELENIUM											
SILVER										7	
THALLIUM		- Anna Carlo									
LINC		***************************************							The state of the s		***************************************
CYANIDE										,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
OTAL PHENOLIC COMPOUNDS	A CARLON AND A CAR	-						, consessed	the desiration of the second		~~~~
HARDNESS (AS CaCO <sub>3</sub> )	The state of the s	a de la companya de l	THE CONTRACT OF THE CONTRACT O	***************************************				- Annie Anni	NAME AND ADDRESS OF THE PARTY O		
lse this space (or a separate sheet)	to provide inf	ormation	on other	metais re	quested b	y the pen	mit writer				

POLLUTANT		/AXIML	IM DAIL' IARGE		discharging effluent to waters of the United S AVERAGE DAILY DISCHARGE					Julies.)	
•	Conc.		Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
VOLATILE ORGANIC COMPOUNDS.								***************************************			
ACROLEIN		Walles		W400-Bildy-Valorinosopo	A CA	Add comments of the comments o		A reference and a state of the			
ACRYLONITRILE											
BENZENE	A CONTRACTOR OF THE CONTRACTOR			And was a second and a second a		A Company of the Comp		ALAMAN PARA PARA PARA PARA PARA PARA PARA PA			
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CARBON TETRACHLORIDE						A Company of the Comp		·			
CLOROBENZENE											***************************************
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CHLOROETHANE						Providence providence		1	A CONTRACT OF THE CONTRACT OF		
2-CHLORO-ETHYLVINYL ETHER						Avyanti kondisista kulu			***************************************	3	***************************************
CHLOROFORM						and to be designed and the second					
DICHLOROBROMO-METHANE									Alliandoongeenee		New Year Control of the State o
1,1-DICHLOROETHANE							****************			**************************************	
1.2-DICHLOROETHANE								A CONTRACTOR OF THE CONTRACTOR	Access to the second se		
TRANS-1,2-DICHLORO-ETHYLENE				-	***************************************				All		
1,1-DICHLOROETHYLENE					en de en					444 (474 - 474 - 474 - 474 - 474 - 474 - 474 - 474 - 474 - 474 - 474 - 474 - 474 - 474 - 474 - 474 - 474 - 474	orapoologia garanaan ahaa ahaa ahaa ahaa ahaa ahaa ah
1,2-DICHLOROPROPANE											***************************************
1 3-DICHLORO-PROPYLENE					(*************************************			Minny			AMARIA MANAMATAN AMARIA MANAMATAN AMARIA MANAMATAN AMARIA MANAMATAN AMARIA MANAMATAN AMARIA MANAMATAN AMARIA M
ETHYLBENZENE			an and a second an	To the state of th				And the Control of th			
METHYL BROMIDE				and the same of th				and the state of t			
METHYL CHLORIDE								A CONTRACTOR OF THE CONTRACTOR			
METHYLENE CHLORIDE							and the second	Land And Committee of the Committee of t			***************************************
1,1,2,2-TETRACHLORO-ETHANE	AND THE PROPERTY OF THE PROPER							de la companya del companya de la companya del companya de la comp			***************************************
TETRACHLORO-ETHYLENE	And a second sec										**************************************
roluene											

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Outfail number: A	(Comp	lete onc	ce for ear	ch outfai	l dischar	ging efflu	uent to w	vaters of	f the United	States.)	
POLLUTANT	MAXIMUM DAILY DISCHARGE			A)	VERAGI	E DAILY	DISCH	ARGE	1		
	Conc.	Units		Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
1,1,1-TRICHLOROETHANE											
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Outfall number:										Tares.,	
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	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
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2,6-DINITROTOLUENE							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		A A A A A A A A A A A A A A A A A A A	1000	
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Outfall number:									the United S	itates.)	
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	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
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1,2,4-TRICHLOROBENZENE	***************************************									- And the state of	
Use this space (or a separate sheet) to	provide in	formation	on other	base-neu	itral comp	ounds red	quested b	y the pen	rrit writer		
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		Š		ENC	*****************	CLL COLL COLL COLL COLL COLL COLL COLL		Oddardin (A)			

END OF PART D.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

### V4 006 2731

## SUPPLEMENTAL APPLICATION INFORMATION

### PART E. TOXICITY TESTING DATA WA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity
  test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results
  of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to

If no biomonitoring data is required, do no complete.	of complete Part E. Refer to the App	lication Overview for directions on whi	ch other sections of the form to
E.1. Required Tests.			
Indicate the number of whole effluen	t toxicity tests conducted in the past	four and one-half years.	
chronicacute			
E.2. Individual Test Data. Complete the column per test (where each species	following chart <u>for each whole efflue</u> s constitutes a test). Copy this page	ent toxicity test conducted in the last for if more than three tests are being rep	our and one-half years. Allow one orted.
	Test number:	Test number:	Test number:
a. Test information.			
Test species & test method number	TO ANALONS AND ANA		
Age at initiation of test			
Outfall number		The state of the s	
Dates sample collected			
Date test started			
Duration			
b. Give toxicity test methods followe	ed.		
Manual title			
Edition number and year of publication			
Page number(s)			
c. Give the sample collection metho	d(s) used. For multiple grab sample	s, indicate the number of grab sample	s used.
24-Hour composite			
Grab			
d. Indicate where the sample was ta	ken in relation to disinfection. (Chec	k all that apply for each)	
Before disinfection			
After disinfection			
After dechlorination		The bold of the bo	

	Test number:	Test number:	Test number:					
e. Describe the point in the treatment process at which the sample was collected.								
Sample was collected:								
f. For each test, include whether the	test was intended to assess chroni	c toxicity, acute toxicity, or both.						
Chronic toxicity		de estado de la companya del companya de la companya del companya de la companya del la companya de la companya						
Acute toxicity		Transition Control of the Control of	Towns of the Control					
g. Provide the type of test performe	d.							
Static								
Static-renewal								
Flow-through		And the second s						
h. Source of dilution water. If labora	atory water, specify type; if receiving	water, specify source.						
Laboratory water		THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OF THE OWNER OWNER OWNER OWNER OWNER OWNER						
Receiving water								
i. Type of dilution water. It salt wate	r, specify "natural" or type of artificia	il sea salts or brine used.						
Fresh water								
Salf water								
j. Give the percentage effluent used	for all concentrations in the test ser	ies.						
k. Parameters measured during the	test. (State whether parameter mee	ts test method specifications)						
pH								
Salinity								
Temperature								
Ammonia								
Dissolved oxygen								
I. Test Results.	The second secon		<u> </u>					
Acute:	от не под		Problem and the mine and an analysis of the second of the					
Percent survival in 100% effluent	%	%	%					
LC <sub>50</sub>			:					
95% C.I.	*	%	%					
Control percent survival	%	%	%					
Other (describe)			No. 20 (1997)					
		**************************************						

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 VA 006 2731 Chronic: NOEC ėγ, % % % % % IC25 % Control percent survival % % Other (describe) m. Quality Control/Quality Assurance. Is reference toxicant data available? Was reference toxicant test within acceptable bounds? What date was reference toxicant test run (MM/DD/YYYY)? Other (describe) E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation? \_\_\_Yes\_\_\_No If yes, describe: E.4. Summary of Submitted Biomonitoring Test Information. If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

END OF PART E.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE.

\_\_\_\_\_(MM/DD/YYYY)

Date submitted:

Summary of results: (see instructions)

## V4 0062731

SUPPLI	EMENTAL	APPLICATION	<b>INFORMATION</b>

#### PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

	reatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must plete Part F.
GEI	NERAL INFORMATION:
F.1.	Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?
	YesNo
F.2.	Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.
	a. Number of non-categorical SIUs.
	b. Number of CIUs.
SIG	NIFICANT INDUSTRIAL USER INFORMATION:
	oly the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 provide the information requested for each SIU.
F.3.	Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.
	Name:
	Mailing Address:
F.4.	Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
F.5.	Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s):
	Raw material(s):
F.6.	Flow Rate.
	a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
	gpd (continuous orintermittent)
	<ul> <li>Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.</li> </ul>
	gpd (continuous orintermittent)
F.7.	Pretreatment Standards. Indicate whether the SIU is subject to the following:
	a. Local limitsYesNo
	b. Categorical pretreatment standardsYesNo
	If subject to categorical pretreatment standards, which category and subcategory?

FACILITY NAME AND PERMIT NUMBER:		Form Approved 1/14/99 OMB Number 2040-0086	
	VA0662731		
F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?			
YesNo If yes, describe each episode.			
RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:			
	F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe?YesNo (go to F.12.)		
F.10.	F.10. Waste Transport. Method by which RCRA waste is received (check all that apply):		
	TruckRailDedicated Pipe		
F,11.	Waste Description. Give EPA hazardous waste number and amount (volum	ne or mass, specify units).	
	EPA Hazardous Waste Number Amount	<u>Units</u>	
		####	
CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:			
F,12.	Remediation Waste. Does the treatment works currently (or has it been no	ified that it will) receive waste from remedial activities?	
	Yes (complete F.13 through F.15.)		
	Provide a list of sites and the requested information (F.13 - F.15.) for each c	urrent and future site.	
F.13.	F.13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).		
F.14.	F.14. Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary).		
	, and a second of the second o		
F.15. Waste Treatment.			
	a. Is this waste treated (or will it be treated) prior to entering the treatment works?		
	YesNo		
	If yes, describe the treatment (provide information about the removal effic	iency):	
	b. Is the discharge (or will the discharge be) continuous or intermittent?		
	ContinuousIntermittent If intermittent, de	scribe discharge schedule.	
END OF PART F.			
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM			

2A YOU MUST COMPLETE

EPA Form 3510-2A (Rev. 1-99). Replaces EPA forms 7550-6 & 7550-22.

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 VA0062731 SUPPLEMENTAL APPLICATION INFORMATION PART G. COMBINED SEWER SYSTEMS If the treatment works has a combined sewer system, complete Part G. G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information) a. All CSO discharge points. b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters). c. Waters that support threatened and endangered species potentially affected by CSOs. G.2. System Diagram. Provide a diagram, either in the map provided in G.1, or on a separate drawing, of the combined sewer collection system that includes the following information: a. Locations of major sewer trunk lines, both combined and separate sanitary. b. Locations of points where separate sanitary sewers feed into the combined sewer system. c. Locations of in-line and off-line storage structures. d. Locations of flow-regulating devices. e. Locations of pump stations. **CSO OUTFALLS:** Complete questions G.3 through G.6 once for each CSO discharge point. G.3. Description of Outfall. a. Outfall number b. Location (City or town, if applicable) (Zip Code) (County) (State) (Latitude) (Longitude) c. Distance from shore (if applicable) d. Depth below surface (if applicable) e. Which of the following were monitored during the last year for this CSO? \_\_Rainfall \_\_\_\_CSO pollutant concentrations \_\_\_\_CSO frequency CSO flow volume \_\_\_\_Receiving water quality f. How many storm events were monitored during the last year? G.4. CSO Events.

a. Give the number of CSO events in the last year.

b. Give the average duration per CSO event.

\_\_ events (\_\_\_ actual or \_\_\_ approx.)

\_ hours (\_\_\_\_ actual or \_\_\_ approx.)

FACILITY NAME AND PERMIT NUMBER: Farm Approved 1/14/99 OMB Number 2040-0086 VA 0062731 c. Give the average volume per CSO event. \_\_\_million gallons (\_\_\_\_actual or \_\_\_\_approx.) d. Give the minimum rainfall that caused a CSO event in the last year. inches of rainfall G.5. Description of Receiving Waters. a. Name of receiving water: \_ b. Name of watershed/river/stream system:\_\_\_\_ United States Soil Conservation Service 14-digit watershed code (if known): c. Name of State Management/River Basin: United States Geological Survey 8-digit hydrologic cataloging unit code (if known): G.6. CSO Operations. Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard).

END OF PART G.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE.